

**KLAIPĖDOS VALSTYBINIS MUZIKINIS TEATRAS
VIEŠOJO PIRKIMO SUTARTIS**

2023-06- Nr. F12-
Klaipėda

I. SUTARTIES ŠALYS

1. **BĮ Klaipėdos valstybinis muzikinis teatras** (Įmonės kodas 190755028), toliau – Užsakovas, atstovaujamas laikinai einančio Teatro vadovo pareigas Teatro vadovo pavaduotojo N. Stanciko, veikiančio pagal Lietuvos Respublikos kultūros ministro 2022 m. gegužės 30 d. įsakymą Nr. ĮV-513 ir **UAB „Propoint LT“** (Įmonės kodas 121928850), toliau – Teikėjas, atstovaujamas direktoriaus Virginijaus Remeikos, vadovaujantis 2023-06-16 Nr. S5-899, 2023-06-27 Nr. S5-941, atlikto Viešojo paslaugų pirkimo – pardavimo dokumentais sudaro šią Prekių įsigijimo sutartį (toliau – Sutartis).

II. SUTARTIES OBJEKTAS

2. Vadovaujantis šioje Sutartyje nustatytais sąlygomis ir tvarka Užsakovas įsigyja, o Teikėjas įsipareigoja pristatyti *Scenos technologijų baleto šokio surenkamų grindų sistemą*. (toliau – Prekės). Prekės turi atitikti techninėje specifikacijoje (Sutarties priedas Nr. 34.2)(toliau - Techninė specifikacija) išvardintas sąlygas.

3. Užsakovas paveda, o Teikėjas įsipareigoja prekes pradėti tiekti nuo Sutarties pasirašymo dienos. Prekės, numatytos Sutartyje, turi būti pristatytos per 5 mėnesius nuo sutarties įsigaliojimo dienos.

III. KAINA IR ATSISKAITYMO TVARKA

4. Šioje Sutartyje numatytų prekių kaina, įskaitant PVM:

Eil. Nr.	Pirkimo objektas	Mato vienetas	Kiekis	Kaina, EUR be PVM	PVM EUR	Kaina, EUR su PVM ($3x(4+5)$)
	1	2	3	4	5	6
5.1.	Scenos technologijų baleto šokio surenkamų grindų sistema	Vnt.	1	40 495,87	8 504,13	49 000,00
Pasiūlymo kaina (6 stulpelio reikšmių suma)						49 000,00

5. Sutartyje yra pasirinktas šis kainos apskaičiavimo būdas: fiksuotos kainos.

6. Prekių ir jų įdiegimo kaina, nurodyta 4 p., yra galutinė ir apima visas tiesiogines ir netiesiogines išlaidas.

7. Prekių kaina dėl bendro kainų lygio kitimo nebus perskaičiuojama, visą riziką dėl prekių kainos padidėjimo prisiima Teikėjas.

8. Atsižvelgiant į Sutarties pobūdį ir ypatumus, Šalys susitaria, kad už tinkamai ir laiku pristatytas Prekes Užsakovas sumoka Teikėjui per 30 (trisdešimt) kalendorinių dienų nuo dienos, kai Užsakovas pasirašo priėmimo-perdavimo aktą ir gauna Elektroninio dokumento nuorašą sąskaitą-faktūrą arba lygiavertį dokumentą. Tais atvejais, kai yra objektyviai pagrįsta (pvz., vėluoja finansavimas iš biudžeto ar CVPA), mokėjimai gali būti atidedami, vėlavimo laikotarpiui, bet ne ilgiau kaip 60 (šešiasdešimt) kalendorinių dienų nuo priėmimo-perdavimo akto pateikimo Užsakovui dienos.

9. Teikėjas PVM sąskaitas–faktūras, sąskaitas-faktūras ir jas pagrindžiančius dokumentus (jei tokie yra), privalo pateikti Užsakovui naudojantis elektronine paslauga „E. sąskaita“ (elektroninės paslaugos „E. sąskaita“ svetainė pasiekama adresu www.esaskaita.eu). Dokumentai pateikiami ir apmokėjimai vykdomi abiem šalims pasirašius pateiktų prekių aktą.

10. Šalys susitaria, kad nepaisant to, kas nurodyta mokėjimo pavedime, Užsakovui atlikus mokėjimus pagal Sutartį, įmokos pirmiausia yra skiriamos padengti anksčiausiai atsiradusiems išskolinimams pagal Sutartį, antrąja eile – delspinigiams apmokėti (jeigu jie buvo priskaičiuoti pagal Sutartį), trečiaja eile – palūkanoms apmokėti (jeigu jos buvo priskaičiuotos pagal Sutartį).

11. Teikėjas negali perleisti tretiesiems asmenims visų ar dalies savo teisių, susijusių su Sutartimi, įskaitant reikalavimo teisę į Užsakovo mokėtinas sumas, be išankstinio Užsakovo rašytinio sutikimo.

12. Be Užsakovo išankstinio rašytinio sutikimo sudaryti sandoriai dėl teisių ar pareigų pagal šią Sutartį perleidimo laikytini niekiniais ir negaliojančiais nuo jų sudarymo momento.

IV. ŠALIŲ ĮSIPAREIGOJIMAI

13. Užsakovas įsipareigoja:

13.1. suteikti Teikėjui visą informaciją, reikalingą Sutartyje numatytoms prekėms

Pristatyti.;

13.3. priimti tinkamai ir kokybiškai pristatytas Prekes;

13.4. už kokybiškai ir laiku pristatytas Prekes sumokėti Teikėjui šioje Sutartyje numatytomis sąlygomis ir terminais pagal pateiktas sąskaitas faktūras.

14. Teikėjas įsipareigoja:

14.1. tinkamai, kokybiškai ir laiku pristatyti Prekes pagal Sutartyje ir Techninėje specifikacijoje nurodytus reikalavimus;

14.2. atlyginti Užsakovui ir tretiesiems asmenims atsiradusius nuostolius dėl netinkamo Sutarties vykdymo ar nevykdymo;

14.3. jeigu Teikėjo kvalifikacija dėl teisės verstis atitinkama veikla nebuvo tikrinama arba tikrinama ne visa apimtimi, Teikėjas Užsakovui įsipareigoja, kad Sutartį vykdys tik tokią teisę turintis asmenys.

14.4. Teikti konsultacijas ir rašytinius paaiškinimus, susijusius su projekto viešaisiais pirkimais, rengiant atsakymus į viešųjų pirkimų ir Projekto vykdymo kontrolę vykdančių institucijų paklausimus bei dalyvauti patikrinimo procedūrose.

V. ŠALIŲ ATSAKOMYBĖ

15. Kiekvienu atveju Teikėjui praleidus bet kurios prievolės įvykdymo terminą, nustatytą šioje Sutartyje ar jos priede, Teikėjas moka Užsakovui 0,02 proc. delspinigius nuo Sutarties kainos. Delspinigiai skaičiuojami ne ilgiau kaip 60 kalendorinių dienų. Pasibaigus šiam terminui, Užsakovas taiko Teikėjui 5 procentų baudą nuo Sutarties vertės.

16. Uždelsus laiku atsiskaityti už pristatytas Prekes, Užsakovas Teikėjui reikalaujant moka 0,02 proc. delspinigius nuo laiku neapmokėtos sumos už kiekvieną vėlavimo dieną. Šalys susitaria, kad šiuo atveju palūkanos nemokamos.

17. Nustačius Prekių trūkumus, nekomplektiškumą, arba kitus neatitikimus Techninei specifikacijai Teikėjas savo sąskaita įsipareigoja ne vėliau kaip per 20 (dvidešimt) kalendorinių dienų Užsakovui pateikti trūkstamą ir (arba) nekomplektišką Prekių kiekį ir pristatyti Techninės specifikacijos reikalavimus atitinkančias Prekes. 18. Jei Teikėjas nutraukia Sutartį vienašališkai, Teikėjas moka Užsakovui baudą, kuri lygi 5 proc. nuo Sutarties kainos.

19. Užsakovas gali nutraukti sutartį, jei Tiekėjas pažeidžia prievolės įvykdymo terminą daugiau kaip 60 kalendorinių dienų arba Tiekėjas dėl savo kaltės per Užsakovo nustatytą laikotarpį neįvykdo Užsakovo nurodymo ištaisyti netinkamai įvykdytus arba neįvykdytus sutartinius įsipareigojimus;

20. Šalys susitaria, kad kilus teisminiam ginčui dėl atsiskaitymo už suteiktas paslaugas, Teikėjas gali reikalauti priteisti ne didesnes kaip 5 (penkių) procentų metines palūkanas nuo nesumokėtos sumos, kaip tai numatyta LR CK 6.210 str. 1 d.

21. Šalys atleidžiamos nuo atsakomybės esant nenugalimos jėgos (force majeure) aplinkybėms pagal LR CK 6.212 str.

VI. KITOS SĄLYGOS

22. Sutartis įsigalioja nuo Sutarties pasirašymo dienos ir galioja 6 mėnesius arba iki visiško šalių įsipareigojimų pagal šią Sutartį įvykdymo dienos arba Sutarties nutraukimo dienos. Sutartyje nurodytas Prekių pristatymo terminas, kai Prekių pristatymas buvo sustabdytas ne dėl Teikėjo kaltės, gali būti pratęstas vieną kartą, bet ne ilgesniam kaip 6 mėn. laikotarpiui.

23. Prekių pirkimo dokumentai (sąlygos, Teikėjo pateiktas pasiūlymas ir kt.) yra neatskiriama šios Sutarties dalis ir saugomi pas Užsakovą.

24. Sutarties sąlygos gali būti keičiamos vadovaujantis Viešųjų pirkimų įstatymo 89 straipsnio nuostatomis.

25. Užsakovas turi teisę sulaikyti mokėjimą už Prekes kol nepašalinti nustatyti Prekių trūkumai, taip pat išskaičiuoti netesybas iš Teikėjui mokėtinų sumų.

26. Užsakovas, išpėjęs Teikėją prieš 15 dienų, turi teisę vienašališkai nutraukti Sutartį dėl esminio Sutarties pažeidimo, taip paaiškėjus aplinkybėms, numatytoms Viešųjų pirkimų įstatymo 90 str. Esminiu Sutarties sąlygų pažeidimu bus laikomas bet kurio įsipareigojimo pagal Sutartį nevykdymas ar netinkamas vykdymas. Užsakovas taip pat gali nutraukti Sutartį ir kitais Lietuvos Respublikos teisės aktuose nustatytais atvejais.

27. Šalys gali nutraukti Sutartį abipusiu raštišku šalių susitarimu.

28. Kiekvieną ginčą, nesutarimą ar reikalavimą, kylantį iš šios Sutarties ar susijusį su šia Sutartimi, jos sudarymu, galiojimu, vykdymu, pažeidimu, nutraukimu, šalys spręs derybomis. Ginčo, nesutarimo ar reikalavimo nepavykus išspręsti derybomis, ginčas bus sprendžiamas teisme pagal Užsakovo buveinės vietą.

29. Sutarties šalims yra žinoma, kad ši Sutartis yra vieša, išskyrus Sutartyje esančią konfidencialią informaciją. Konfidencialia informacija laikoma tik tokia informacija, kurios atskleidimas prieštarautų teisės aktams.

30. Sutarčiai, iš jos kylantiems Šalių santykiams bei jų aiškinimui taikoma Lietuvos Respublikos teisė.

31. Sutartis pasirašyta dviem egzemplioriais, turinčiais vienodą juridinę galią, po vieną – Užsakovui ir Teikėjui.

32. Vadovaujantis Lietuvos Respublikos aplinkos ministro 2011 m. birželio 28 d. įsakymu Nr. D1-508 patvirtinto Aplinkos apsaugos kriterijų taikymo, vykdant žaliuosius pirkimus, tvarkos aprašo (aktualios redakcijos) 4.4.4. p. Užsakovo reikalavimais nustatytais Techninėje specifikacijoje, pirkimas laikomas ŽALIUOJU.

33. Už Sutarties vykdymą atsakingas Užsakovo darbuotojas: Strateginio ir investicijų skyriaus Investicinių projektų koordinatorė Daiva Daugė, el.p. daiva.dauge@kvmt.lt, tel. +37068248144.

34. Priedai:

34.1. Tiekėjo pasiūlymas, 13 lapų;

34.2. Užpildytos Techninės specifikacijos reikalavimų lentelės su priedais, 92 lapai.

VII. ŠALIŲ REKVIZITAI IR PARAŠAI

Užsakovas:

BĮ Klaipėdos valstybinis muzikinis teatras

Įmonės kodas 190755028

PVM mokėtojo kodas LT907550219

K. Donelaičio g. 4, LT- 92144 Klaipėda

Tel. +370 46 39 74 00

El. p. teatras@kvmt.lt

AB „SWEDBANK“

A. s. LT487300010002330393

L. e. Teatro vadovo pareigas

Teatro vadovo pavaduotojas N. Stancikas

A.V.

Teikėjas:

UAB „Propoint LT“

Įmonės kodas 121928850

PVM mokėtojo kodas LT219588515

Latvių g. 15-55, 08123 Vilnius

Tel. (8) 633 63638

El.p. info@propoint.lt

AB „SWEDBANK“

A. s. LT95 7300 0101 3970 6379

Direktorius Virginijus Remeika

A.V.



UAB „Propoint LT“

Uždaroji akcinė bendrovė (UAB) „Propoint LT“ Latvių g. 15-55, LT-08123 Vilnius. Tel.: 8 633 63638 El. paštas: info@propoint.lt
Duomenys apie įmonę kaupiami ir saugomi valstybės įmonės „Registrų centras“ Juridinių asmenų registre JAR-1-E
Įmonės kodas: 121928850 / PVM mokėtojo kodas LT219288515

PASIŪLYMAS DĖL TEATRO SCENOS TECHNOLOGIJŲ BALETO ŠOKIO SURENKAMŲ GRINDŲ SISTEMOS MAŽOS VERTĖS PIRKIMO

2023-06-20

(data)

Vilnius

(vieta)

Klaipėdos valstybinis muzikinis teatras
K. Donelaičio g. 4, LT-92144 Klaipėda

(Adresatas)

1. INFORMACIJA APIE TIEKĖJĄ:

Tiekėjo arba ūkio subjektų grupės dalyvių pavadinimas (-ai), juridinio asmens kodas (-ai) (jeigu pasiūlymą teikia fizinis asmuo – verslo ar individualios veiklos pažymėjimo Nr. ar pan.), adresas (-ai)	Pavadinimas: UAB „Propoint LT“ Juridinio asmens kodas: 121928850 Adresas: Latvių g. 15-55, LT-08123 Vilnius.
Ūkio subjektų grupės dalyvis, atstovaujantis arba vadovaujantis ūkio subjektų grupei (pildoma, jei pasiūlymą teikia tiekėjų grupė)	-
Asmens, įgalioto bendrauti su perkančiąja organizacija, kontaktinė informacija (vardas, pavardė, tel., faks., el. p., adresas)	Direktorius: Virginijus Remeika Mob. +370 682 67606 El. pašto adresas: info@propoint.lt

2. INFORMACIJA APIE ŪKIO SUBJEKTUS, KURIŲ PAJĖGUMAIS TIEKĖJAS REMIASI, KAD ATITIKTŲ PERKANČIOSIOS ORGANIZACIJOS KELIAMUS KVALIFIKACIJOS REIKALAVIMUS (JEIGU TOKIE REIKALAVIMAI KELIAMAI) (nurodomi ir kvazisubtiekėjai – fiziniai asmenys, kuriuos ketinama įdarbinti pirkimo laimėjimo atveju) (pildoma, jei tiekėjas pasitelkia kitų ūkio subjektų pajėgumais pagal VPĮ 49 str.)

Eil. Nr.	Ūkio subjekto pavadinimas, juridinio asmens kodas, adresas	Nuoroda į pirkimo dokumentų punkto sąlygą, kuriai atitikti remiamasi ūkio subjekto pajėgumais	Sutarties objekto dalies, perduodamos vykdyti ūkio subjektui, aprašymas
1.	-	-	-
2.	-	-	-

3. INFORMACIJA APIE ŽINOMUS SUBTIEKĖJUS IR JIEMS PERDUODAMA VYKDYTI SUTARTIES DALIS (pildoma, jei tiekėjas pasitelkia subtiekėjus)

Eil. Nr.	Subtiekėjo pavadinimas, juridinio asmens kodas, adresas	Sutarties objekto dalies, perduodamos vykdyti subtiekėjui, aprašymas
1.	-	-
2.	-	-

4. PASIŪLYMO KAINA

4.1. Pasiūlyme kaina nurodomos eurais. Jeigu pasiūlymuose kainos nurodytos užsienio valiuta, jos turės būti perskaičiuojamos į eurus pagal Europos Centrinio Banko skelbiamą orientacinį euro ir užsienio valiutų santykį, o tais atvejais, kai orientacinio euro ir užsienio valiutų santykio Europos Centrinis Bankas neskelbia, – pagal Lietuvos banko nustatomą ir skelbiamą orientacinį euro ir užsienio valiutų santykį pasiūlymų pateikimo dieną.

4.2. Apskaičiuojant kainą, turi būti atsižvelgta į visą pirkimo dokumentuose nurodytą pirkimo objekto apimtį ir reikalavimus, kainos sudėtinės dalis ir pan. Perkančioji organizacija, tiekėjui baigus vykdyti sutartį, turės galėti naudotis pirkimo objektu be papildomų išlaidų, jei pirkimo dokumentuose aiškiai nenurodyta kitaip. PVM nurodomas atskirai. Jei tiekėjas yra ne PVM mokėtojas, turi apie tai nurodyti pasiūlyme, nurodant teisinį pagrindą. Tiekėjas turi įvertinti ar sutarties vykdymo metu netaps PVM mokėtoju. Jei tiekėjas vykdydamas sutartį taps PVM mokėtoju, pasiūlyme turi nurodyti kainą su PVM. Pasiūlymų kainos bus vertinamos ir lyginamos su visais mokesčiais, įskaitant PVM. Tuo atveju, kai mokesčius reguliuojančių įstatymų ir jų įgyvendinamųjų teisės aktų nustatyta tvarka perkančioji organizacija pati turi sumokėti PVM į valstybės biudžetą už įsigytą pirkimo objektą, šis mokestis įskaičiuojamas į pasiūlymo kainą (jeigu tiekėjas jo neįskaičiuoja pateikiant pasiūlymą, palyginimo tikslais įskaičiuoja pati perkančioji organizacija). Į pasiūlymo kainą privalo būti įskaičiuoti visi mokesčiai bei visos kitos Tiekėjo patirtos ir (ar) galimos patirti tiesioginės ir netiesioginės išlaidos ir mokesčiai, susiję su Prekių tiekimu, įskaitant, bet neapsiribojant (išskyrus tuos atvejus, kai pirkimo dokumentuose aiškiai nurodyta, kad tam tikros konkrečios išlaidos neturi būti įskaičiuotos į Sutarties kainą):

4.2.1. transportavimo išlaidas;

4.2.2. pakavimo, pakrovimo, tranzito, iškrovimo, išpakavimo, tikrinimo, draudimo ir kitas su Prekių tiekimu susijusias išlaidas;

4.2.3. visas su dokumentų, kurių reikalauja Pirkėjas, rengimu ir pateikimu susijusias išlaidas;

4.2.4. aprūpinimo įrankiais, reikalingais pristatytų Prekių surinkimui ir (arba) priežiūrai, išlaidas;

4.2.5. naudojimo ir priežiūros instrukcijų, numatytų Techninėje specifikacijoje, pateikimo išlaidas;

4.2.6. elektroninių sąskaitų teikimo išlaidos;

4.2.7. Prekių garantinės priežiūros išlaidos;

4.2.8. Kitos Pirkimo dokumentuose nurodytos išlaidos.

4.3. Visos pasiūlyme nurodytos kainos (ir jų sudėtinės dalys) turi būti nurodomos dviejų skaičių po kablelio tikslumu. Jei trečias skaičius po kablelio yra nuo 0 iki 4, antrasis skaičius po kablelio paliekamas koks yra, jei trečias skaičius po kablelio yra nuo 5 iki 9, antrąjį skaičių po kablelio padidiname vienu vienetu, pvz., 3,14159 suapvalinus iki šimtųjų bus 3,14. Suapvalinus 3,1153 iki šimtųjų bus 3,12.

Eil. Nr. 1	Pirkimo objektas 2	Kaina EUR be PVM 3
1.	Teatro scenos technologijų baletų šokio surenkamų grindų sistema	40 495,87 €
	PVM (pildoma, jei taikoma)	PVM dydis procentais: 21 % 8 504,13 €
	Pasiūlymo kaina EUR su PVM	49 000,00 €

4.4. Pasiūlymo kaina EUR su PVM žodžiais: Keturiasdešimt devyni dūkstančiai Eurų ir 00 ct.

4.5. Jei „PVM“ laukas nepildomas, nurodykite priežastis, dėl kurių PVM nemokamas:

5. PRIDEDAMI DOKUMENTAI IR INFORMACIJA APIE KONFIDENCIALUMĄ

Jei nenurodyta kitaip, visi dokumentai teikiami su pasiūlymu CVP IS priemonėmis:

Eil. Nr.	Dokumentas	Lapų skaičius	Ar dokumente yra konfidencialios informacijos? (Taip / Ne)	Paaiškinimas, kokia konkretni informacija dokumente yra konfidenciali ir kodėl
1	2	3	4	5
1.	Jungtinės veiklos sutarties kopija (jei pasiūlymą pateikia ūkio subjektų grupė)	-	-	-
2.	Įgaliojimo ar kito dokumento, suteikiančio teisę pateikti ir (ar) pasirašyti pasiūlymą bei kitus dokumentus, kopija (jeigu pasiūlymą pateikia ir ar dokumentus pasirašo ne tiekėjas, ūkio subjektų grupės dalyvių, subteikėjų ar ūkio subjektų, kurių pajėgumais tiekėjas remiasi, vadovas)	-	-	-
3.	Jeigu tiekėjas pasitelkia ūkio subjektus – įrodymai, kad šie ištekliai bus prieinami per visą sutartinių įsipareigojimų vykdymo laikotarpį	-	-	-
4.	Kiti dokumentai (jei taikoma)			
5.	3.1. Certificate	2	Ne	-
6.	3.2. Confirmation warranty	1	Ne	-
7.	3.3. Techninė dokumentacija * *Įrangos gamintojų techninė dokumentacija su informacija, patvirtinančia siūlomos įrangos atitikimą Techninės specifikacijos reikalavimams pateikiama vienoje archyvinėje byloje pavadinimu „Techninė dokumentacija“, naudojant nediskriminuojantį, visuotinai prieinamą archyvinių bylų formatą *.zip, archyve pateikiamas ir suarchyvuotų dokumentų sąrašas (I pirkimo dalies Tech dok sąrašas). Archyvinėje byloje yra 17 dokumentų įskaitant suarchyvuotų dokumentų sąrašą.		Ne	-
8.	3.4 Techninės specifikacijos lentelės		Ne	-
9.	Tiekejo-deklaracija	1	Ne	-
10.	Tiekejo-patvirtinimas	1	Ne	-
11.	RC pazyma 2023-06-13	2	Taip	Visas dokumentas ir visa jame skelbiama viešai neprieinama informacija.
12.	Confirmation Article 45p2 and 92p15	2	Ne	-

Pasirašydamas šį pasiūlymą, tvirtintu, kad:

- esu susipažinęs su pirkimo dokumentais, taip pat su galiojančiais Lietuvos Respublikos įstatymais, poįstatyminiais teisės aktais, kurie reguliuoja viešųjų pirkimų atlikimo tvarką bei gali turėti įtakos bet kokiems tarp perkančiosios organizacijos ir tiekėjo susiklostantiems santykiams, kylantiems iš šio pirkimo ir (ar) susijusiems su šiuo pirkimu;

- sutinku su pirkimo dokumentuose nustatytais sąlygomis ir procedūromis,
- pasiūlymo dokumentuose pateikti duomenys ir informacija yra teisinga ir apima viską, ko reikia tinkamam sutarties įvykdymui;
- pasiūlymas galioja pirkimo sąlygų IV skyriuje „Pasiūlymų rengimas, pateikimas, keitimas“ atitinkamame punkte nurodytą terminą.

Direktorius

(Tiekėjo arba jo įgalioto asmens pareigų pavadinimas)



(Parasas)



Virginijus Remeika

(Vardas, pavardė)

HARLEQUIN

The world dances on Harlequin floors®

Date: the 12th of June, 2023.



To Whom It Concerns,

CONFIRMATION

We, Harlequin Europe SA, 29 rue Notre-Dame – L-2240 Luxembourg, hereby confirm that Harlequin products offered within the frame of the Klaipeda State Musical Theater Floor Tender are free from defects in materials and workmanship and are covered by 60 (sixty) months limited warranty period. We assure UAB “Propoint LT” of our fullest support during and after the warranty period.

Harlequin Europe.,

Represented by

Signature

Name / Surname Chantal Lagniau

Position General Manager

Harlequin Europe S.A.
29, rue Notre-Dame
L-2240 Luxembourg

Tel. (+352) 46 44 22
Tel. FR (+352) 46 44 99
Tel. DE (+352) 46 39 39
Fax. (+352) 46 44 40

www.harlequinfloors.com
info@harlequinfloors.com

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Dance Medicine & Science



Floors for dance, performing arts, entertainment and display

HARLEQUIN

The world dances on Harlequin floors®

Date: the 20th of June, 2023.



To Whom It Concerns,

CERTIFICATE

We, Harlequin Europe SA, 29 rue Notre-Dame – L-2240 Luxembourg, hereby confirm, that the following company:

Company Name: UAB "Propoint LT"

Company registration code (ID): 121928850. VAT number: LT219288515.

Registration address: Latviu str. 15-55, LT-08123 Vilnius, LITHUANIA.

Contact Details: Mobile +370 633 63638. E-mail: info@propoint.lt

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operates as our official Harlequin Europe dealer appointed within the frame of the Klaipeda State Musical Theater Floors Tender for Harlequin products sales, integration and technical support in Lithuania. We assure UAB "Propoint LT" of our fullest support during the warranty and after the warranty period.

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Date: the 12th of June, 2023.



To Whom It Concerns,

CONFIRMATION

We, Harlequin Europe SA, 29 rue Notre-Dame – L-2240 Luxembourg, hereby declare and confirm that all Harlequin products and components do NOT originate from states or territories specified in the list provided for in Article 92, Part 15 of the Law, to which related proposals are subject to the Public Regulations of the Republic of Lithuania of the list of provisions of Article 45, Paragraph 2¹, conditions 1-3 of the Law on Procurement¹, approved by the Government of the Republic of Lithuania in 2022 March 30 by resolution no. 280.

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Article 45 paragraph 2¹ of the Law on Public Procurement Link:

[https://katalogas.cpo.lt/images/nac_saugos_patikra/6_VP%C4%AE%20nuostatos%20\(EN\).d](https://katalogas.cpo.lt/images/nac_saugos_patikra/6_VP%C4%AE%20nuostatos%20(EN).d)
[OCX](#)

Harlequin Europe.,

Represented by

Signature

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UAB „Propoint LT“

Uždaroji akcinė bendrovė (UAB) „Propoint LT“ Latvių g. 15-55, LT-08123 Vilnius. Tel.: 8 633 63638 El. paštas: info@propoint.lt
Duomenys apie įmonę kaupiami ir saugomi valstybės įmonės „Registrų centras“ Juridinių asmenų registre JAR-1-E
Įmonės kodas: 121928850 / PVM mokėtojo kodas LT219288515

Klaipėdos valstybinis muzikinis teatras
K. Donelaičio g. 4, LT-92144 Klaipėda
(Pirkimo vykdytojo pavadinimas)

TIEKĖJO PATVIRTINIMAS

2023 m. birželio 20 d.
Vilnius

Patvirtinu, kad mano atstovaujamo gamintojo pirkimui siūloma grindų danga ir jos pakuotė yra:

Visa "Harlequin" naudojama mediena yra atsakingai gaunama iš tvariai ir gerai valdomų miškų, kurie turi FSC arba PEFC sertifikatus.

"Harlequin" įrodė savo įsipareigojimą siekti tvarumo ir gavo FSC "Gamybos grandinės" sertifikatą.

Visi "Harlequin" vinilinių grindų dangų gaminiai atitinka aukščiausią "BRE Green Guide" įvertinimą A+

Visos žaliavos, naudojamos "Harlequin" vinilinių grindų dangų gamyboje, atitinka REACH (cheminių medžiagų registracija, įvertinimas, autorizacija ir apribojimai) reikalavimus ir jose nėra jokių SVHC (labai didelį susirūpinimą keliančių medžiagų), kurių koncentracija didesnė nei 0,1 % (m/m).

Visuose "Harlequin" vinilinių grindų gaminiuose nėra CMR (kancerogeninių, mutageninių, toksiškų reprodukcijai) 1 ar 2 kategorijos medžiagų.

Visuose "Harlequin" vinilinių grindų gaminiuose nėra formaldehido ir jie klasifikuojami kaip atitinkantys E1 klasę.

Visi "Harlequin" vinilinių grindų gaminiai buvo išbandyti dėl lakiųjų organinių junginių ir gavo "Intertek" auksinį "Clean Air" sertifikatą dėl išmetamų teršalų bei atitinka BREEAM (Building Research Establishment Environmental Assessment Method) ir LEED (Leadership in Energy & Environmental Design) reikalavimus dėl geros oro kokybės.

Visos "Harlequin" vinilinės grindys ir naudojamos pakuotės medžiagos yra 100 % perdirbamos.

Visose "Harlequin" vinilinėse grindyse yra nuo 23 % iki 30 % po gamybos perdirbtų medžiagų.

"Harlequin" atitinka "Vinyl Plus", Europos PVC pramonės įsipareigojimo siekti tvarios plėtros, rekomendacijas.

"Harlequin" vykdo aktyvią "Take Back" schemą, pagal kurią gaminiai po montavimo ir naudojimo perdirbami į antro naudojimo gaminius.

Nuo tada, kai "Harlequin Floors" įdiegė savo "įsipareigojimo perdirbti" schemą, pagal kurią medžiagos buvo nukreipiamos nuo sąvartynų, programa leido sutaupyti 93 tonas CO2 emisijos.

Deklaruojamoms aplinkybėms pasikeitus, įsipareigoju nedelsiant apie tai informuoti Pirkimo vykdytoją.

Direktorius



Virginijus Remeika



UAB „Propoint LT“

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Įmonės kodas: 121928850 / PVM mokėtojo kodas LT219288515

Klaipėdos valstybinis muzikinis teatras
K. Donelaičio g. 4, LT-92144 Klaipėda
(Pirkimo vykdytojo pavadinimas)

TIEKĖJO DEKLARACIJA

2023 m. birželio 20 d.

Vilnius

Patvirtinu, kad mano atstovaujamo tiekėjo sudėtyje nėra Rusijos dalyvavimo, viršijančio 2014 m. liepos 31 d. Tarybos reglamento (ES) Nr. 833/2014 dėl ribojamųjų priemonių atsižvelgiant į Rusijos veiksmus, kuriais destabilizuojama padėtis Ukrainoje, su pakeitimais, padarytais 2022 m. balandžio 8 d. Tarybos reglamentu (ES) Nr. 2022/576, 5k straipsnyje nustatytas ribas. Visų pirma patvirtinu, kad:

(a) mano atstovaujamas tiekėjas (ir nė vienas iš tiekėjų grupės narių) nėra Rusijos pilietis arba Rusijoje įsisteigęs fizinis ar juridinis asmuo, subjektas ar įstaiga;

(b) mano atstovaujamas tiekėjas (ir nė vienas iš tiekėjų grupės narių) nėra juridinis asmuo, subjektas ar įstaiga, kurio nuosavybės teisės tiesiogiai ar netiesiogiai daugiau kaip 50 % priklauso šios dalies a) punkte nurodytam subjektui;

(c) nei aš, nei mano atstovaujama bendrovė nėra fizinis ar juridinis asmuo, subjektas ar įstaiga, veikianti a) arba b) punkte nurodyto subjekto vardu ar jo nurodymu;

(d) a)-c) punktuose išvardyti subjektai nedalyvauja subtiekejais, tiekėjais ar subjektais, kurių pajėgumais remiasi mano atstovaujamas tiekėjas, tais atvejais kai jiems tenka daugiau kaip 10 % sutarties vertės.

Patvirtinu, kad tiekėjui, subtiekejams, kuriuos esu pasitelkęs ar pasitelksiu ateityje, ūkio subjektams, kurių pajėgumais remiuosi ar (ir) remsiuosi, prekių (ir jų sudedamųjų dalių) gamintojams netaikomos Lietuvos Respublikoje įgyvendinamos tarptautinės sankcijos, kaip tai apibrėžta Lietuvos Respublikos tarptautinių sankcijų įstatyme.

Deklaruojamoms aplinkybėms pasikeitus, įsipareigoju nedelsiant apie tai informuoti Pirkimo vykdytoją.

Direktorius



Virginijus Remeika

**SCENOS TECHNOLOGIJŲ
BALETO ŠOKIO SURENKAMŲ GRINDŲ SISTEMA
TECHNINĖ SPECIFIKACIJA**

1 lentelė. Techninės specifikacijos reikalavimų lentelė:

Eil. Nr.	Pavadinimas ir techninės charakteristikos	Mato vienetas	Kiekis
1.	Baleto šokio surenkamų grindų sistema	Kompl.	1

Siūlomos įrangos gamintojas: Harlequin Europe SA

Siūlomas įrangos modelis / modifikacija: Harlequin Liberty Portable complete SET (HQN2306211980)

Komplektacija:

12 vnt.	LPA-HALF	Harlequin Liberty Panel Half Size
66 vnt.	LPA-FULL	Harlequin Liberty Panel Full Size
2 vnt.	LIB-KEY	Harlequin Liberty Key
10 vnt.	LRA-2MRE-mi	Harlequin Liberty Ramp Receiver mini 2m
10 vnt.	LRA-2MLA-mi	Harlequin Liberty Ramp Latch mini 2m
2 vnt.	LRA-1MLA-mi	Harlequin Liberty Ramp Latch mini 1m
2 vnt.	LRA-1MRE-mi	Harlequin Liberty Ramp Receiver mini 1m
1 vnt.	LRA-XL-LA-RH-mi	Harlequin Liberty Ramp Xtra long righthand with latch mini- 2.22m
1 vnt.	LRA-XL-RE-RH-mi	Harlequin Liberty Ramp Xtra long righthand with receiver MINI - 2.22m
1 vnt.	LRA-XL-RE-LH-mi	Harlequin Liberty Ramp Xtra long lefthand with receiver MINI - 2.22m
1 vnt.	LRA-XL-LA-LH-mi	Harlequin Liberty Ramp Xtra long lefthand with latch MINI - 2.22m
4 vnt.	TRA-CART-LIB	Transport Cart for Liberty "A" Frame
3 roll	RVP-004N-25	Harlequin Duo Pro black/grey (2x25m)
24 vnt.	GAF-180	Gaffer Tape Black - 50 m
12 vnt.	GAF-502-REV	Gaffer Tape Grey - 50 m GGT-REV
1 vnt.	KIT-STO-ROL-6X2	Storage Cart 6 Rolls 2m Kit
18 vnt.	TRA-ROLLS-B	Rollstraps B : rolls of 17 to 28 cm

Informacinės nuorodos į siūlomos įrangos gamintojų dokumentaciją, patvirtinančią siūlomos įrangos atitikimą reikalavimams, oficialiose gamintojų svetainėse internete (siūlomos įrangos gamintojų dokumentacija, su informacija patvirtinančia siūlomos įrangos atitikimą reikalavimams, gali būti pateikiama kaip priedai):

Siūlomos įrangos informaciniai puslapiai oficialioje gamintojo svetainėje internete (angly k.)

<https://euro.harlequinfloors.com/en/products/floors/sprung-floors/harlequin-liberty-sprung-floor>

<https://euro.harlequinfloors.com/en/products/accessories/harlequin-liberty-accessories>

<https://euro.harlequinfloors.com/en/products/floors/vinyl-floors/harlequin-duo-pro-enhanced-dance-stage-floor-vinyl#specifications>

<p>https://euro.harlequinfloors.com/en/products/accessories/vinyl-floor-and-sprung-panel-storage-carts/harlequin-liberty-sprung-floor-panel-a-frame-storage-cart</p> <p>https://euro.harlequinfloors.com/en/products/accessories/vinyl-floor-and-sprung-panel-storage-carts/harlequin-vinyl-roll-cart</p> <p>https://euro.harlequinfloors.com/en/products/accessories/harlequin-vinyl-floor-roll-straps</p> <p>https://euro.harlequinfloors.com/en/faqs/downloads</p> <p>Siūlomos įrangos gamintojo viešai prieinami informaciniai dokumentai parsisiuntimui oficialioje gamintojo svetainėje internete (angly k.)</p> <p>Informacinis puslapis oficialioje gamintojo svetainėje internete (angly k.) apie vykdomą tvarumo, socialinę ir aplinkosaugos politiką: https://euro.harlequinfloors.com/en/about/sustainability-policy-statement</p> <p>Garantinis laikotarpis (mėn.): suteikiama 5 metų, t.y. 60 mėnesių garantija.</p>	<p>Tiekėjo siūlomos įrangos techninių specifikacijų parametrai ir tikslios reikšmės (pildo Tiekėjas)</p> <p>1. Siūloma specializuota baletų šokio grindų (spyrnuoklinių baletų grindų) sistema, skirta šokti profesionaliems baletų artistams, ji yra modulinė ir laisvai montuojama bet kokioje erdvoje.</p> <p>2. Siūlomos sistemos grindys yra mobilios, lengvai surenkamos ir išrenkamos, patogiai transportuojamos.</p> <p>3. Siūlomos sistemos grindų aikštelės dydis yra 12 x 12 m.</p> <p>4. Galima keisti formuojamos šokio grindų aikštelės dydį pagal pageidavimus 1 m žingsniu.</p> <p>5. Siūlomi baletų grindų segmentai (plokšties) yra greitai sujungiamos tarpusavyje, naudojant „skląsčio ir spygnos“ užrako sistemą.</p> <p>6. Baletų grindų segmentams (plokščiams) sujungti „skląsčio ir spygnos“ užrako sistema, yra siūloma su dviem specialiais raktais.</p> <p>7. Segmentai yra su amortizuojančiomis pagalvėlėmis, kurios vienodai ir nuosekliai slopina smūgius.</p> <p>8. Baletų grindų bandymai yra atlikti pagal BS EN 14904:2006 standartą.</p> <p>9. Baletų grindų vidutinė smūgio absorbcija yra 67%.</p> <p>10. Baletų grindų segmento taškinė apkrova, pagal BS EN 1195 standartą ir yra 1126 kg.</p> <p>11. Baletų grindų užbaigimui, visame baletų grindų aikštelės išoriniame perimetre, yra rampa (nuožulnumas) 20 cm pločio, su „skląsčio ir spygnos“ užrako sistema.</p> <p>12. Baletų grindų užbaigimui, visame baletų grindų aikštelės išoriniame perimetre, yra 4 baigiamieji kampai (90 laipsnių), sujungimui su siūlomomis rampomis (20 cm).</p>
<p>Minimalūs perkancijosios organizacijos reikalavimai (galima siulyti ir su geresniais duomenimis)</p> <ol style="list-style-type: none"> 1. Turi būti specializuota baletų šokio grindų (spyrnuoklinių baletų grindų) sistema, skirta šokti profesionaliems baletų artistams, turi būti modulinė, laisvai montuojama bet kokioje erdvoje. 2. Turi būti mobilii, lengvai surenkama ir išrenkama, patogiai transportuojama. 3. Grindų aikštelės dydis (plotis x ilgis) turi būti ne mažiau kaip 12 x 12 m. 4. Turi būti galima keisti formuojamos šokio grindų aikštelės dydį (plotis x ilgis) pagal pageidavimus ne daugiau kaip 1 m žingsniu (pvz. 11 x 11 m). 5. Baletų grindų segmentai (plokšties) turi būti greitai sujungiami tarpusavyje, naudojant „skląsčio ir spygnos“ užrako sistemą. 6. Baletų grindų segmentams (plokščiams) sujungti „skląsčio ir spygnos“ užrako sistema, turi būti pateikti ne mažiau kaip du specialūs raktai. 7. Segmentai turi būti su amortizuojančiomis pagalvėlėmis, kurios vienodai ir nuosekliai slopina smūgius. 8. Baletų grindų bandymai turi būti atlikti pagal BS EN 14904:2006 ar jam lygiavertį standartą. 9. Baletų grindų vidutinė smūgio absorbcija turi būti ne mažesnė nei 65%. 10. Baletų grindų segmento taškinė apkrova, pagal BS EN 1195 ar lygiavertį standartą, turi būti ne mažiau kaip 1000 kg. 11. Baletų grindų užbaigimui, visame baletų grindų aikštelės išoriniame perimetre, turi būti rampa (nuožulnumas) ne siauresnė nei 20 cm, su „skląsčio ir spygnos“ užrako sistema. 12. Baletų grindų užbaigimui, visame baletų grindų aikštelės išoriniame perimetre, turi būti ne mažiau kaip 4 baigiamieji kampai (90 laipsnių), sujungimui su siūlomomis rampomis (ne siauresnėmis nei 20 cm). 	

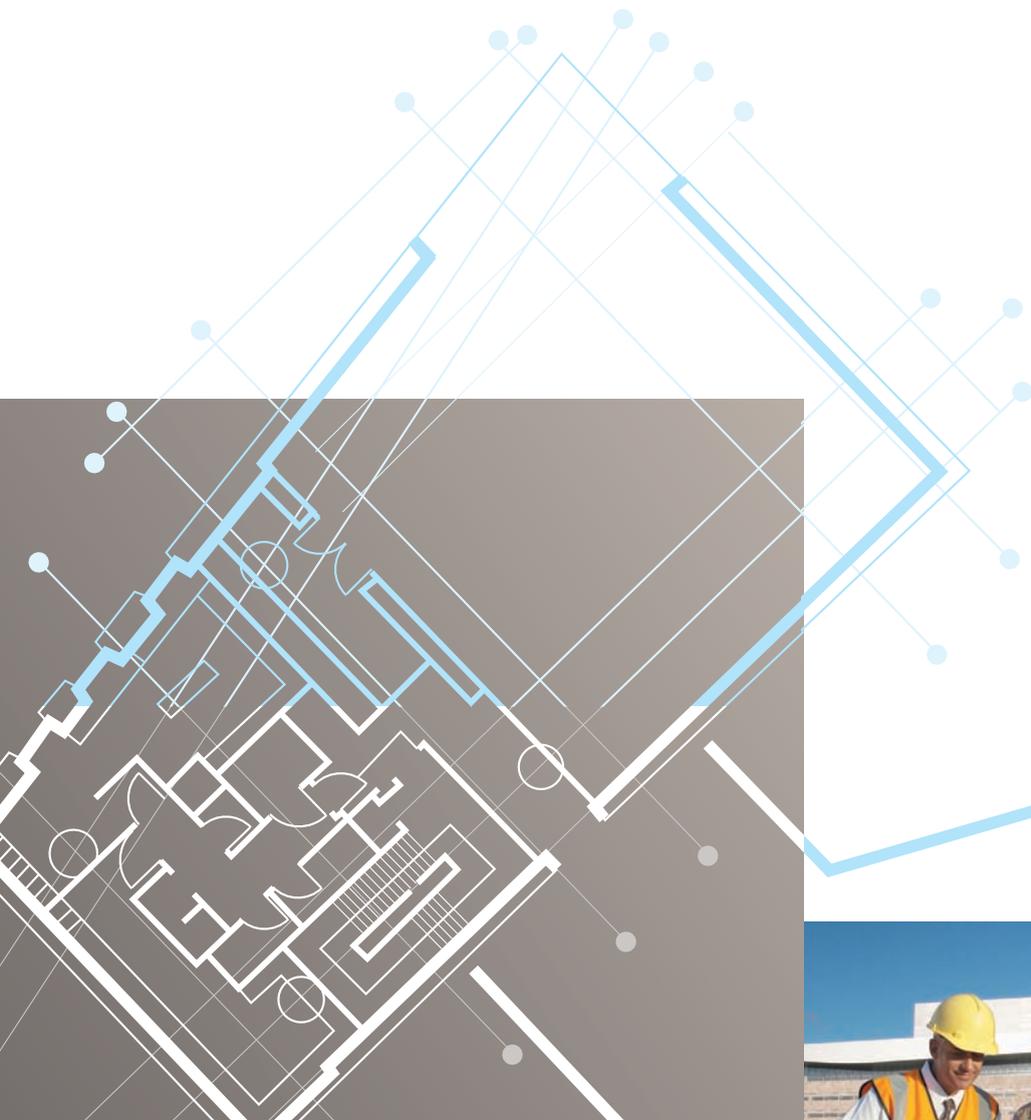
<p>13. Viršutiniam šokio grindų alkštelės sluoksniui turi būti neslidi, dvipusė PVC grindų danga. Spalva: viena pusė turi būti juoda / kita pusė turi būti pilka.</p> <p>14. Dvypusė PVC grindų danga turi būti su PVC dangas armuojančiu tarp sluoksniu užtikrinančiu medžiagos tvirtumą ir atsparumą deformacijoms.</p> <p>15. PVC dangos atsparumo ugniai laipsnis ne žemesnis kaip Bfl-s1 pagal EN 13501-1 ar lygiavertį standartą.</p> <p>16. Danga turi būti ne mažiau kaip 2 m pločio ir ne mažiau kaip 12,5 m ilgio, rulonuose.</p> <p>17. Kiekvienam rulonui turi būti ne mažiau kaip trys daugkartinio naudojimo dirželiai rulono surišimui, apsaugantys nuo savaiminio rulono išsivyniojimo.</p> <p>18. Paklotos PVC grindų dangos kraštinių sujungimui turi būti ne mažiau kaip 24 vnt. juodos spalvos ir ne mažiau kaip 12 vnt. pilkos spalvos lipnios juostos rulonai skirti PVC dangų suklijavimui.</p> <p>19. Lipnios juostos turi būti ne mažiau kaip 50mm pločio ir 50m ilgio rulonuose, turi atitikti RoHS reglamento reikalavimus.</p> <p>20. Grindų sistemos komplekte turi būti vežimėliai reikalingi visiems grindų segmentams ir PVC grindų dangos rulonams transportuoti ir sandėliuoti.</p> <p>21. Vežimėlių ratukai turi būti su stabdžio mechanizmu, nepalikantys juodų dryžių ant grindų dangos, poliamidiniai ar lygiavertiai.</p> <p>22. Vežimėliai turi būti su šakinio krautuvo kišenėmis šoniniam vežimėlio kėlimui.</p> <p>23. Visos siūlomos prekės turi būti naujos, nenaudotos, neatnaujintos, ne ekspozicinės.</p> <p>24. Įranga, atitinkanti Techninės specifikacijos reikalavimus, turės būti pristatyta adresu: Danės g. 19, LT-92111 Klaipėda.</p> <p>25. Surenkamų baletų grindų sistemai turi būti suteikiama ne mažiau 60 mėn. gamintojo garantija. Turi būti pateiktas gamintojo raštiškas patvirtinimas.</p>	<p>13. Viršutiniam šokio grindų alkštelės sluoksniui yra siūloma neslidi, dvipusė PVC grindų danga. Spalva: viena pusė yra juoda / kita pusė yra pilka.</p> <p>14. Dvypusė PVC grindų danga yra su PVC dangas armuojančiu tarp sluoksniu užtikrinančiu medžiagos tvirtumą ir atsparumą deformacijoms.</p> <p>15. Siūlomos PVC dangos atsparumo ugniai laipsnis yra su Bfl-s1 pagal EN 13501-1 standartą.</p> <p>16. Danga yra 2 m pločio 12,5 m ilgio, rulonuose (25 m ilgio rulonas dalinamas į dvi dalis).</p> <p>17. Kiekvienam rulonui yra trys daugkartinio naudojimo dirželiai rulono surišimui, apsaugantys nuo savaiminio rulono išsivyniojimo.</p> <p>18. Paklotos PVC grindų dangos kraštinių sujungimui yra 24 vnt. juodos spalvos ir 12 vnt. pilkos spalvos lipnios juostos rulonai skirti PVC dangų suklijavimui.</p> <p>19. Lipnios juostos yra 50mm pločio ir 50m ilgio rulonuose ir yra atitinkančios RoHS reglamento reikalavimus.</p> <p>20. Grindų sistemos komplekte yra vežimėliai reikalingi visiems grindų segmentams ir PVC grindų dangos rulonams transportuoti ir sandėliuoti.</p> <p>21. Vežimėlių ratukai yra su stabdžio mechanizmu, nepalikantys juodų dryžių ant grindų dangos, poliamidiniai.</p> <p>22. Vežimėliai yra su šakinio krautuvo kišenėmis šoniniam vežimėlio kėlimui.</p> <p>23. Visos siūlomos prekės yra naujos, nenaudotos, neatnaujintos, ne ekspozicinės.</p> <p>24. Įranga, atitinkanti Techninės specifikacijos reikalavimus, bus pristatyta adresu: Danės g. 19, LT-92111 Klaipėda.</p> <p>25. Surenkamų baletų grindų sistemai yra suteikiama 60 mėn. gamintojo garantija. Yra pateiktas gamintojo raštiškas patvirtinimas.</p>
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Siūlomos įrangos gamintojų dokumentacija, su informacija, patvirtinančia siūlomos įrangos atitikimą Techninės specifikacijos reikalavimams, yra pateikiama vienoje archyvinėje byloje pavadinimu „Techninė dokumentacija“, naudojant nediskriminuojančius, visuotinai prieinamus archyvinę bylų formatus *.zip arba *.rar, pateikiant ir suarchyvuotų dokumentų sąrašą.

2 lentelė. SIŪLOMOS ĮRANGOS GAMINTOJŲ DOKUMENTACIJA, SU INFORMACIJA PATVIRTINANČIA SIŪLOMOS ĮRANGOS ATTIKIMĄ TECHNINĖS SPECIFIKACIJOS REIKALAVIMAMS

Eil. Nr.	Dokumento pavadinimas	Kuriai Techninės	Lapų skaičius
		specifikacijos pozicijai aktualu.	
1.	Architect-Guide-LR	1	22
2.	Fire-feu DuoPro-RevPro loose-ibre	1	7
3.	Fire-feu Liberty	1	7
4.	Gaffer-tape-Specification-sheet	1	1
5.	Guarantee-Harlequin-Europe	1	1
6.	Harlequin Accessories	1	1
7.	Harlequin Liberty Transport cart	1	1
8.	Harlequin Liberty-Accessories	1	2
9.	Harlequin sprung floors - EN 2021	1	12
10.	Harlequin-Duo-Pro-EN	1	1
11.	Harlequin-Liberty-EN	1	3
12.	Klaipeda Musical Theatre - modified 0606 - 12x12	1	1
13.	Klaipeda Musical Theatre - modified 0606 - 11x13	1	1
14.	Liberty - acoustic report - EN	1	13
15.	Liberty - DIN 18032 certificate	1	8
16.	Sustainability Policy Statement	1	6

HARLEQUIN
The world dances on Harlequin floors®



SPECIFYING DANCE FLOORS A GUIDE FOR ARCHITECTS

THE WORLD DANCES ON HARLEQUIN FLOORS®

INTRODUCTION

With a growing interest in the provision of spaces suitable for dance - for professional performance and rehearsal, private dance schools and throughout the education sector - there is increasing focus towards specifying dance floors that both meet performance aspirations and conform to health and safety requirements.

The purpose of this guide is to introduce architects to recent developments in dance floor technology and practice, specification issues – including aesthetic versus performance considerations – and why the choice of floor is also critical in minimising injuries to dancers.

The acclaimed Laban in London, designed by Herzog & de Meuron, winner of the RIBA Stirling Prize and a building created specifically for the study and performance of dance, is not alone in being a dedicated facility.

WHAT THE EXPERTS SAY:

“A suitable floor is a critical element in the Health and Safety of the dancers. Having a ‘portable’ sprung dance floor of such a high calibre that Harlequin produces, there really is no excuse for hard floors. It is not enough to provide a non-slip surface or a smooth surface: if the floor is not sprung, dancers will get injuries.”

Rachel Rist MA
Past President of the International Association for Dance Medicine and Science (IADMS)
Director of Dance
Arts Educational School, Tring Park

“It is as dangerous to dance on a hard floor as it is to constantly dance on different types of floor. As far as private dance schools are concerned, they should choose their dance floors more carefully. The best preventative method will always be the installation of a correct dance floor. In my opinion, a dance floor should be neither too supple nor too soft.

A hard floor has the effect of causing serious return shock waves and can bring about injuries or premature wear in the cartilage. A soft floor causes the muscles, and therefore the tendons, to work harder.

Additionally, a floor which is too soft can be dangerous for dancers because of the effect of surprise.”

Surgeon Boni Rietveld, MD,
Head of the Dutch Medical Centre for Dancers and Musicians, The Hague,
Co-Founder of the Dutch Performing Arts Medicine Association

Elmhurst Ballet's relocation to Birmingham and Hextable Dance in Kent are further examples of new build projects for dance. Elsewhere in the British Isles there is a movement in colleges and secondary schools to converting existing facilities from less subscribed teaching subjects to the provision of spaces for dance, drama and live performance. With dance a subject in the National Curriculum and offered at GCSE and ‘A’ Level, schools teaching dance also call for floors of the right quality from a manufacturing group with the correct pedigree.

The construction of fine dedicated dance facilities is a global trend, well serviced by the Harlequin group, and some selected examples are shown in the case studies on pages 16-27 of this booklet.

“Dancing on unsuitable and un-sprung floors can literally end a dancer's career. The damage caused to muscles and joints by repeated impact on a solid surface can injure a dancer for life. Evidence of safe dance practice is an element of all CDET quality assurance procedures and sprung floors contribute enormously to the wellbeing of students in training and professional dancers alike.”

Sean Williams, Director,
Council for Dance Education
and Training

“In the experience of many dance teachers, the key benefit of a proper sprung dance floor is the shock absorption which helps to ensure less chance of spinal, ankle or leg injury. This enables dancers to feel more secure when performing any type of elevation. The floor also gives with the body and provides a better surface for movements taking the performer quickly from standing to floor level, involving rolling, landing and falling, i.e. movements from high to low level involving very fast dynamics.”

Professor Joan White,
Director of Education,
Royal Academy of Dance

In the 2004 report from the House of Commons Culture, Media & Sport Committee entitled "Arts Development: Dance", reference is made to a submission by British Harlequin plc with respect to the role of floors in the dance industry. The "Working Conditions" section notes that "differences in a number of factors can be critical to the artist (keeping the body in dancing condition) and can affect the performance. These include: heat, ventilation and flooring (sprung or not, as well as general quality and condition). It is also important that the building complies with health and safety regulations. We received very specific evidence from British Harlequin plc that described the lack of properly sprung floors within performance venues and why floor quality is important to the health of dancers."

In 2008, The Dance Review, a report to Government on dance education and youth dance in England, recommended a sprung dance floor in every new school and information gathered indicated that schools need clear guidance and education on the necessity of sprung floors for dance. The Government's response recognised that dance must be part of the discussions about school design and, since the profile of dance will continue to rise, the demand for adequate facilities will become an important issue. Indeed, the guidance and scope of the Building Schools for the Future programme allows for the provision of a sprung dance floor in any new BSF school with over 450 pupils.

PICTURED ON FRONT COVER :

Left: Hextable Dance, Kent, England | Upper centre: Bard College, USA
Lower centre: Newport Theatre & Arts Centre, South Wales | Right: Copenhagen Opera House, Denmark

CONTEMPORARY PHOTOGRAPHY:

Courtesy of Richard Dunkley

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CONSIDERATIONS ON CHOOSING A DANCE FLOOR

Here follows a short list of criteria to be examined when you design a dance floor. These considerations are generally covered in this guide. Some may require discussion with Harlequin and your client and, of course, your budget will dictate your final choice.

1. Type of dance?

Ballet
Modern/contemporary
Jazz (stage dance)
Tap/percussive
A combination of the above
Other: e.g. flamenco, ballroom, ethnic/folk

2. Permanent or temporary?

Is your client likely to move elsewhere in the foreseeable future?

Is the floor to be loose-laid or permanent – e.g. in a theatre or multi-purpose facility? If your client is a tenant, is he or she unable within the terms of the lease to install a floor permanently?

Will the floor be used for touring?

3. Should the floor be sprung?

With increasing awareness of Health & Safety legislation, it is always advisable to draw the attention of your client to the possibility of a sprung floor, even if building construction and budget eventually preclude it. Traditionally, however, sprung floors have focussed on indoor sports and athletics and this document considers the differences between dance and sports floors and the need for architects to know how to differentiate.

4. New build or existing building?

Normal design criteria apply e.g.
Moisture barriers
Floor strength/construction
Dance floor thickness/weight
Ceiling height
Door swing. Ramps required?
Floor-mounted dance barres
Heating system (underfloor?)

5. Are there standards relating to dance floors?

Please refer to "Standards & Tests" on page 5.

Key elements of a dance floor

They are, of course, building floor construction and the dance floor system to be laid on it. The subfloor may be solid or suspended – anything from a quarry-tiled screed to a suspended wood floor with carpet. It is beyond the scope here to offer design solutions to all combinations, but generally they can be found. Sprung floors exist in our range which may be laid directly over carpet or onto even smooth-tamped concrete and a phone call or email to our Technical Sales will help pinpoint the correct solution.

Whether or not you decide upon a sprung subfloor, you will need to specify the working surface of the dance floor: a most important component. Whilst wood floors are still generally accepted for ballroom, folk and social dance, they have not been the preference of most artistic dancers for over a quarter of a century. Wood in its various forms and finishes (for instance waxed, urethane-lacquered or merely sanded) is normally found to be an unpredictable surface for professional artistic dancers. There are clients, however, who insist on a wood finish for mixed use and this finish is offered as an option with our sprung floors (see pp 6-11).

Dance floor surfaces are various constructions of vinyl sheet, differing critically from commercial vinyls in that they are formulated to give controlled slip resistance. They are, however, not virtually non-slip like some rubber floors, a property which blocks movement and is a hazard to dancers.

A note of caution: it is estimated that over a third of commercial vinyl floors are classified as safety floors i.e. slip-resistant, especially in wet conditions, and it would be tempting to think of them as "safe" for dance. But this slip-resistant property is variously achieved by the addition of coarse abrasive components and/or cork, frequently enhanced by a distinct surface emboss. All of these modifications are the abomination of dancers, who require a smooth and relatively soft surface to avoid abrasion and skin burns.

Over more than a quarter of a century Harlequin has meticulously developed eight vinyl dance floors, five of them compact (i.e. non-cushioned) and the other three having varying qualities of foam backing, both to give slip resistance and point elasticity (see page 4). The Application Guide for these floors is shown on page 13. The recommendations are indicative only, based on our long experience and dancers' preferences. There are exceptions to almost every recommendation. We strongly advise that you request samples and we invite detailed discussion if you have queries.

Tap is a particularly aggressive form of dance, and you should make your client aware that worn and loose screws and taps will damage any dance floor sooner or later and he or she should be vigilant with students' footwear. If tap cannot be separated from other dance activities, it is prudent to select one of our floors indicated with three 'dots' in the Application Guide.

DANCE FLOORS V SPORTS FLOORS

It is a common assumption that a well-designed sports floor will suit the needs of dancers, but there are two intrinsic differences: the construction of the **sprung subfloor** and **the performance surface**.

THE SPRUNG SUBFLOOR

Along with some shock absorption, most indoor sports require a high degree of energy return and a requirement for adequate ball bounce. Evidently, dancers have scant interest in ball bounce, but they are vitally focussed in a different way on a combination of shock absorption and energy return. There are no hard and fast rules, but it is clear that female dancers tend towards shock absorption – without any 'sponginess' – whereas the men appreciate a dance floor with more "spring" for their often more energetic choreography. Indoor sports people can tolerate a stiffer floor as they usually have cushioned footwear – a luxury barred to dancers.

Softwood floors are rarely an option because even with a lacquered surface they are too readily susceptible to damage, gouging and splintering. With correct preparation and sealing, softwood floors can indeed provide a very acceptable subfloor on which to install a Harlequin dance surface. As a practical and commercial measure, Harlequin sprung floors are normally finished with FG plywood or MDF prior to the application of a Harlequin dance floor surface.

Unfinished pine floors are still in use in some traditional Russian dance schools, notably the famous Vaganova Academy in St. Petersburg, but as finances allow, Harlequin dance floors are progressively being installed to cover them.

THE PERFORMANCE SURFACE

Here the main criterion for dancers is slip-resistance, disconcertingly dubbed "traction" by many in the dance community. Although sports people share the abhorrence of the risk of slipping and falling, they again are generally protected by their footwear from floors that might be considered a slip hazard for dancers, for example some hard-lacquered wood floors. Lower limb problems such as tendonitis, 'shin splints', knee pain and ankle strain can all be attributed to incorrectly specified sprung floors and can take several weeks of physiotherapy and recovery time to correct.

A WORD ABOUT WOOD FINISHES

Historically the choice was between a wooden floor and linoleum, until the advent of purpose developed vinyl floors during the 1970s. Although it may be tempting to opt for a wood floor for purely aesthetic reasons, or a commercial grade vinyl for reasons of cost, today there are many options specifically designed for dance. A well-installed hardwood sprung floor, properly finished and maintained, does look attractive, and specifically for ballroom dance is a desirable option.

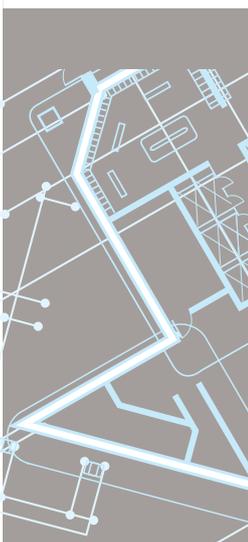
SEMI-SPRUNG OR SPRUNG?

The desire for a floor with "give" was accelerated by the fashion in ballroom dancing before and after the Second World War. These floors often used coil or leaf springs and, as genuinely sprung floors were far too bouncy for ballet or contemporary artistic dance, the need to provide semi-sprung floors – particularly for ballet – led to considerable modifications.

In the last fifty years metal springs have largely given way to resilient blocks or pads made of rubbers or polymers. With modern floor construction methods the "trampoline" effect of the early sprung floors has been suppressed and these modern floors for both sports and dance are generally referred to as semi-sprung. Nevertheless, the distinction has been forgotten and for convenience we loosely refer to both types of floor as sprung floors.

POINT & AREA ELASTICITY

These terms are defined in the German standard DIN 18032 Part II, relating to sports surfaces. A point-elastic floor shows deflection or "give" only at the point of contact and an area-elastic floor flexes over a wider area. The specification limits the spread of this deflection to avoid disturbance to neighbouring sports performers. It has been noted by dancers that some of the criteria of DIN 18032 are somewhat irrelevant to them.



STANDARDS & TESTS

STANDARDS

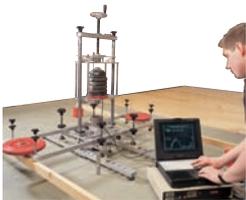
No standards exist which relate specifically to dance floors. This was noted by the US-based organisation Entertainment Services Technical Association (ESTA) (www.esta.org) and a Working Group was set up to establish an international standard to be adopted by the American National Standards Institute (ANSI). The Working Group consists of manufacturers, end-users, and specifiers. The Harlequin group is represented by its associate, American Harlequin Corporation.

The new standard will be broadly based on DIN 18032, but modified to reflect the interests of dancers and related stage performers. In June 2006 the initial section in draft form in English and with English terminology was open for public review.

Note: It cannot be assumed that if a product conforms to this standard it will automatically be approved by dancers, whose predilections vary. The proposed standard will, however, provide protection to specifiers and manufacturers in the form of consensual test data. Please consult Harlequin for guidance before specifying.

The section BSR E1.26 – 2006, "Recommended Testing Methods and Values for Shock Absorption of Floors Used in Live Performance Venues", relates to shock absorption and has now been adopted as an ANSI standard. A further section, BSR E1.34 "Measuring and Specifying the Slipperiness of Floors Used in Live Performance Venues", was submitted for public review in January 2008.

When the standard is complete there will be incentive for manufacturers to submit products for testing and the Harlequin group is confident of its products meeting the test criteria, which are unattainable by a number of stiffer sports floors. Further details can be found at www.esta.org



DIN STANDARD TEST 18032 Part II

Summary: tests of shock absorption, vertical deflection, area deflection and behaviour under rolling load, described under DIN 18032, were carried out on Harlequin sprung floors by the Centre for Sports Technology Ltd., in London. DIN 18032 part II is the German Standard for floor requirements for sports halls. Outline descriptions of the methods are given below:



3.1 Force Reduction (shock absorption)

The 'Force Reduction' test measures the degree by which the floor reduces the impact force which occurs when an athlete, or dancer, lands on it.

The test was devised to simulate the forces observed when a runner's heel strikes the ground. The apparatus consists of a 20kg mass which is allowed to fall onto a stiff spring resting on the floor. The force which results from the impact depends on the relative stiffness of the floor to that of the spring. The test is carried out on a concrete floor as well as on the floor under test and the result quoted is the amount by which the force measured on the test floor is lower than the force measured on concrete.



3.2 Vertical Deflection

In the 'Vertical Deflection' test, the amount by which the floor deflects under impact load is measured directly. The test is similar in principle to the force reduction test, however, a softer spring is used and the drop height is adjusted so that the peak force produced falls within a certain range.



3.3 Area Deflection

Area Deflection is measured using a modification of the vertical deflection apparatus. Instead of measuring the deflection at the point at which the test force is applied, it is measured 500mm away. The purpose of the test is to ensure that one athlete or dancer standing on the floor will not be excessively disturbed by the movements of another nearby.

3.4 Resistance to a Rolling Load

The 'Rolling Load Resistance' test is carried out on two structurally critical areas of the floor. A steel wheel whose width, diameter and corner radii are defined, is loaded to 1500 N and is rolled repeatedly over the surface of each area. After 300 passes, the floor is examined for damage.

The photos show tests to DIN 18032 in progress on Harlequin's WoodSpring basketweave floor with Harlequin Cascade surface and dancers from the Royal Ballet, London, approving the test floor.

Pioneering scientific research is currently being conducted to investigate the mechanical properties of dance floors and, in particular, how these properties relate to dancer performance and injury. The research is being conducted in three parts. Firstly, injuries occurring in dancers employed by a professional touring dance company will be compared to the mechanical properties of the stage floors at different venues where the company performs. Secondly, dancer preference and their ability to accurately rate different types of dance floors will be analysed. Thirdly, a 3D motion analysis system will be used to analyse dancers' movements and impact forces whilst performing dance techniques on a range of dance floors. This research will hopefully provide valuable knowledge as to the particular dance floor properties appropriate for dance and if criteria can be developed regarding dancer requirements for dance floors, this knowledge can be applied to create safer working environments for dancers. The Harlequin Group is assisting with this research.

HARLEQUIN ACTIVITY™ WITH VINYL & HARDWOOD SURFACES

Harlequin Activity is a permanently installed sprung floor system based on the now well-established triple sandwich construction originated by Harlequin over 20 years ago. It is a fully-floating system with no fixings to the sub-floor and can be laid on almost any reasonably smooth and flat surface without preparation.

The construction of Harlequin Activity is shock-damped to avoid a 'trampoline' effect and provides area elasticity to offer identical characteristics across the whole floor. Correctly reinforced, Harlequin Activity can withstand heavy loading including retractable seating. Harlequin Activity has been tested for impact sound reduction with a variety of different Harlequin surfaces, according to BS EN ISO 140-8; 1998. The excellent results achieved ranged from 22 to 24dB.

Harlequin Activity can be installed with a choice of surfaces:

- Harlequin vinyl surface: for all types of dance, but particularly ballet.
- Hardwood surface: for specifiers who need a hardwood surface for multi-purpose use, including traffic by the general public, full stage entertainment, ballroom dance or even for designers obliged to match existing decor.

Harlequin Activity floor is only available for installation by Harlequin's Contracts Division.

HARLEQUIN ACTIVITY™ WITH VINYL SURFACE

A polymer damp-proof membrane is laid across the subfloor onto which is placed a layer of cellular polyurethane of proprietary density. Two layers of moisture-resistant semi-flexible panels are then installed and staggered, so that the joints do not coincide. The top layer of panels is bonded to the one below with a non-setting adhesive and fastened mechanically.

The damp-proof membrane is folded onto the surface and secured to form a damp-proof seal. Then the selected Harlequin vinyl performance surface is installed and adhered. The seams are welded to form an unbroken surface and, finally, the gap between the flooring and the wall is filled with a composite skirting profile, screwed to the edge of the floor structure to form a flexible seal to the wall.

Depending on individual performance requirements, the following are suitable as the top performance surface of a Activity Floor:

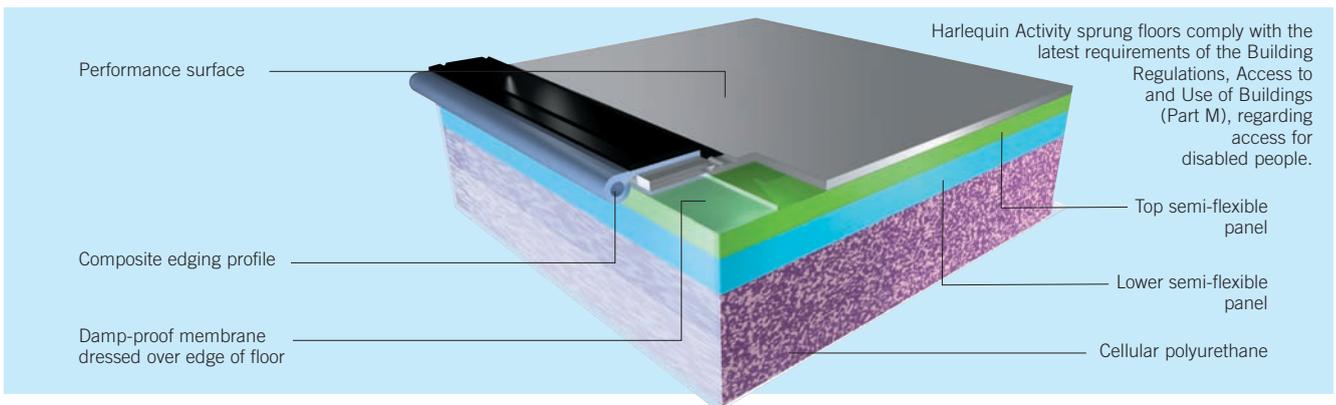
See pages 12-14 for full details.

Harlequin Cascade	Harlequin Tempo	Harlequin Standfast
Harlequin Studio	Harlequin Fiesta	Harlequin Allegro



DIN STANDARD 18032 PART II TEST RESULTS				
	Shock Absorption	Vertical Deformation	Area Deflection	Rolling Load
Requirement	Min 53%	Min. 2.3mm	Max 15%	Min 1500 N
Harlequin Activity	59.4%	3.8mm	7.2%	>1500 N

HARLEQUIN ACTIVITY™ WITH VINYL SURFACE



A SELECTION OF CUSTOMERS IN THE U.K. & IRELAND WITH HARLEQUIN ACTIVITY FLOORS

Arc Theatre Company, Barking (Cascade)
Ballet West, Oban (Studio)
Bournemouth Arts Institute (Cascade)
Brighton, Hove & Sussex VI Form College (Cascade)
Buxton Community College (hardwood maple)
Central School of Ballet, London (Cascade)
Dance Base, St. Albans (Cascade)
Dance College of Cornwall, Falmouth (Studio)
Daneside Theatre, Congleton (Fiesta)
De Montfort University, Leicester & Bedford (Cascade)
Doreen Bird College, Sidcup (Studio)

Garner Lane Arts Centre, Waterford, Eire (Tempo)
Eastwood High School, Scotland (Cascade)
English National Ballet School (Cascade)
Haberdashers' Monmouth School for Girls (Cascade)
Hautlieu School, Jersey, Channel Islands (Cascade)
Hextable Dance, Swanley (Cascade)
Imperial Society of Teachers of Dancing, London (Standfast)
Kidkast Theatre School, Dublin (Standfast)
Kilmarnock College (Fiesta)
Kingston University (hardwood maple)
Lambeth College, London (Cascade)
Lewisham College, London (Studio)
London Academy of Music & Dramatic Art (LAMDA) (hardwood oak)

Martin's Heron Community Centre, Bracknell (Fiesta)
Merton Adult Community Centre, London (Fiesta)
North West Kent College, Dartford (Cascade)
Northern Academy of Performing Arts, Hull (Cascade)
Northern School of Contemporary Dance, Leeds (Studio)
Rambert Dance Company, London (Studio)
Reigate College (Cascade)
Royal Ballet School, Richmond Park, London (Cascade)
Scottish Ballet, Glasgow (Cascade)
Scottish Youth Theatre, Glasgow (Cascade)
Stella Mann School of Dance, Bedford (Cascade)
Swan Theatre, Worcester (Standfast)

HARLEQUIN ACTIVITY™ WITH HARDWOOD SURFACE

The construction is identical to Activity with a Harlequin vinyl surface, but the second layer of semi-flexible panels is replaced by a selected hardwood surface layer, normally an engineered board with a choice of hardwood wear layer. (However, if desired, this can be substituted with a solid hardwood layer.) This is installed with the use of a modified PVA adhesive and secretly secured through the tongues using lost-head nails. The hardwood surface may optionally be protected by impregnation with a multi-coat hardwearing polymer lacquer. The expansion gap around the perimeter of the room can be concealed by a scotia profile of matching hardwood to form a neat edging.



New Activity Floor with maple surface installed at New Cut Arts Centre, Halesworth, Suffolk.



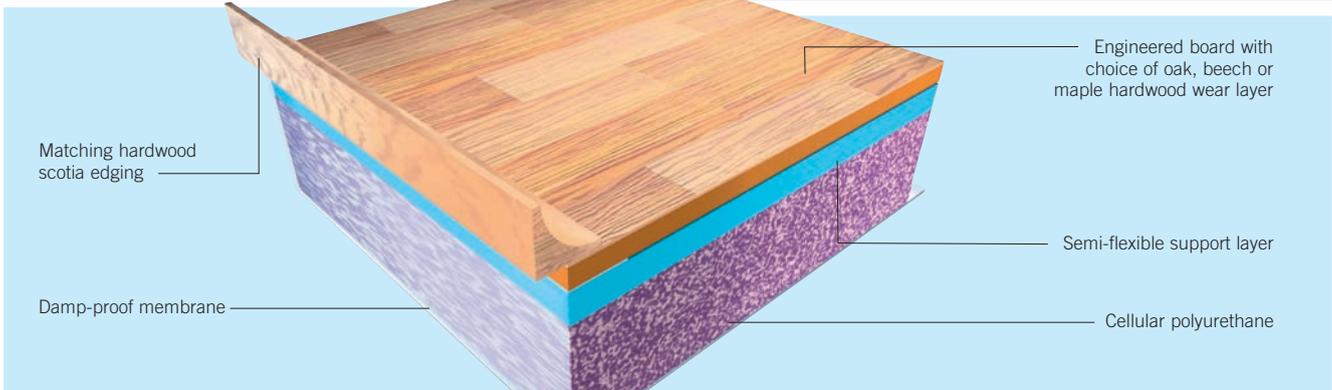
Cellular polyurethane layer

First layer of semi-flexible panels

Top semi-flexible panel layer with joints staggered

Harlequin vinyl performance surface

HARLEQUIN ACTIVITY™ WITH HARDWOOD SURFACE



SPECIFICATION

HARLEQUIN ACTIVITY™ WITH VINYL SURFACE

Overall thickness:	47 mm (1 7/8") nominal excluding vinyl surface
Weight:	20-25 kg/m ² (37-46 lbs/yd ²) depending on surface specification

HARLEQUIN ACTIVITY™ WITH HARDWOOD SURFACE

(Typical construction using engineered board)

Overall thickness:	52 mm (2 1/16")
Description of board:	14 mm (9/16") thick 2-ply engineered hardwood
Total thickness of hardwood wear layer:	4 mm (3/16")
Weight:	22-28 kg/m ² (40-51 lbs/yd ²) depending on hardwood surface chosen
Laying time:	A floor of 100-150 m ² (120-180 yd ²) can generally be installed in 5 days
Maximum distributed load:	750 kg/m ² (1380 lbs/yd ²)
Maximum dynamic load:	350 kg/m ² (645 lbs/yd ²)

“ Harlequin Activity transformed our collapsing uneven floor into a resilient, trouble-free surface over 15 years ago. And our dancers still love it! ”

MALCOLM GLANVILLE

Technical Director, Rambert Dance Company, London

Thomas's Preparatory School, Clapham & Battersea, London (Fiesta & Cascade)
Uxbridge College (Cascade)
Wirral Grammar School for Girls, Bebington (hardwood maple)
Yvonne Arnaud Theatre, Guildford (Cascade)

A SELECTION OF CUSTOMERS OVERSEAS WITH HARLEQUIN ACTIVITY FLOORS

Alaska Dance Theater, Anchorage, USA (Cascade, Studio, Standfast)
Aspen Ballet, Aspen, USA (Studio)
Ballett und Yoga am See, Starnberg, Germany (Studio)
City Center, New York City, USA (Cascade)

Conservatoire de Montrouge, France (Studio)
Conservatoire National de Région de Nice, France (hardwood oak)
Crystal Cruise Line's ship, Crystal Serenity (hardwood jatoba)
Dallas Dance Academy, Plano, USA (Cascade)
Dimensione Danza, Rome, Italy (Cascade)
Escuela de Danza Aules, Barcelona, Spain (Cascade)
Fashion Institute of Technology, New York City, USA (Cascade)
Hubbard Street Dance, Chicago, USA (Standfast)
Institut del Teatre, Barcelona, Spain (Cascade)
International School of Brussels, Belgium (Fiesta)
Kaatsbaan International Dance Centre, Tivoli, USA (Cascade)
Le Centre des Arts Vivants, Paris, France (Cascade)

Orlando Ballet, Orlando, USA (Studio)
Stjoerdal Musikkskolen, Norway (Cascade)
Trisha Brown Dance Company, New York City, USA (Studio)
Vic Ballet, Verona, Italy (Cascade)

HARLEQUIN LIBERTY™ PERMANENT & PORTABLE PANELS

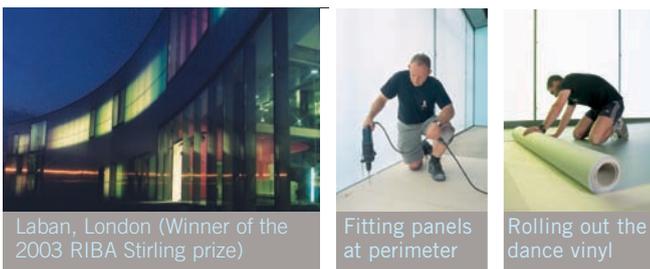
HARLEQUIN LIBERTY™ PERMANENT SPRUNG FLOOR PANELS

Harlequin Liberty is a modular floor manufactured from engineered superior quality marine birch ply with closed cell elastomer blocks on the underside to give uniform and consistent shock damping. The panels are laid brickwork fashion on the sub-floor so that cross-joins do not coincide. They are linked to each other by a radiussed tongue and groove pivot joint and secured by means of a unique locking system.

The pivot joint extends along the panel edges to within 20mm of the corners ensuring the corners are protected from flexion under load. The edges are also carefully supported by elastomer blocks.

The unique feature of the blocks is their "dual density" (a sandwich of two different hardnesses tested by the Shore Durometer Test). This provides progressive compression under light and heavy loads providing the same "feel" and energy return to one or several dancers on the same panel.

The blend of the pivot joint and the special blocks make the transition from one panel to another imperceptible, which is of paramount importance to performers.

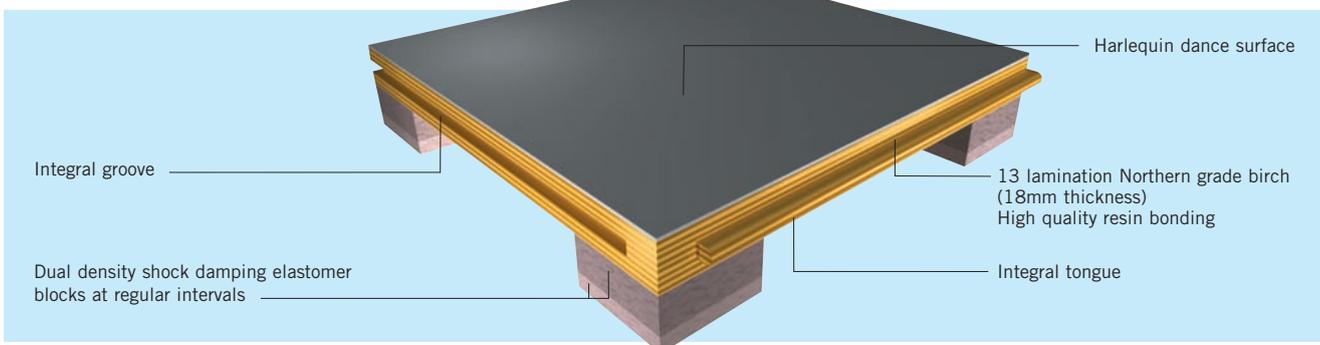


Laban, London (Winner of the 2003 RIBA Stirling prize)

Fitting panels at perimeter

Rolling out the dance vinyl

HARLEQUIN LIBERTY™ PERMANENT SPRUNG FLOOR PANELS



SPECIFICATION

Dimensions:	Full size panel 2.412m x 1.206m (95" x 47 ¹ / ₂ " Half size panel 1.206m x 1.206m (47 ¹ / ₂ " x 47 ¹ / ₂ " Other panel sizes available to order
Weight:	Permanent panels 36.5 kg (80 lbs); portable panels 52 kg (114 lbs)
Installed thickness:	Permanent panels 37mm (1 ¹ / ₂ "); portable panels 42mm (1 ⁵ / ₈ ") plus the Harlequin floor
Installation time:	Permanent panels approx. 100 sq.m. (120 sq.yd.) per day with 2 persons Portable panels approx. 50 sq.m. (60 sq.yd.) per hour with 2 persons
Thermal conductivity (k values):	Ply 0.14 W/m K Vinyl 0.067 W/m K Further values may need to be taken into account for the elastomer blocks and air space
Maximum distributed load:	650 kg/m ² (1200 lbs/yd ²)
Maximum dynamic load:	300 kg/m ² (555 lbs/yd ²)

“ The dance floors Harlequin installed are of the highest standard and we have heard nothing but praise from both our staff and students. ”

STEPHEN MUNN
Head of Theatre Programme at Laban, London

A SELECTION OF CUSTOMERS IN THE U.K. & IRELAND WITH HARLEQUIN LIBERTY FLOORS

Basildon & Thurrock College (Cascade)
Bedford College (Studio)
Blackpool 6th Form College (Cascade)
Diversions Dance Company, Cardiff (Studio & Reversible)
Furness College, Barrow in Furness (Studio)
Hemel Hempstead School (Studio)
Lambeth College, London (Cascade)
Liverpool Institute for the Performing Arts (Reversible)
London Metropolitan University
Manchester Metropolitan University, Alsager Campus (Studio)

Merce Cunningham Dance Company at the Tate Modern, London (Studio)
National Folk Theatre of Ireland, Tralee, Eire (Reversible)
Poynton High School (Reversible)
Project Arts Centre, Dublin, Eire
Royal National Theatre, London
Siobhan Davies Dance Company, London (Studio)
Sir Henry Floyd Grammar School, Aylesbury (Studio)
South East Derbyshire College, Ilkeston (Studio)
St. Martin's College, Lancaster (Tempo)
St. Vincent's College, Gosport (Reversible)
University of Birmingham, Selly Oak Campus (Reversible)
University of Surrey, Roehampton (Studio)
University of the West of England, Bristol (Studio)
Weston College, Weston-super-Mare (Cascade)

A SELECTION OF CUSTOMERS OVERSEAS WITH HARLEQUIN LIBERTY FLOORS

American Ballet Theater, New York City, USA (Cascade)
American University, Washington, USA (Cascade)
Association pour la Danse Contemporaine, Geneva, Switzerland (Reversible)
Athens Concert Hall, Greece (Studio)
Ballet Flamenco de Andalucia
Ballet van Vlaanderen, Antwerp, Belgium
Ballettschule der Wiener Staatsoper, Vienna, Austria (Cascade)
Bayerische Staatsoper, Munich, Germany (Studio)
Bolshoi Ballet, Moscow, Russia (Cascade)

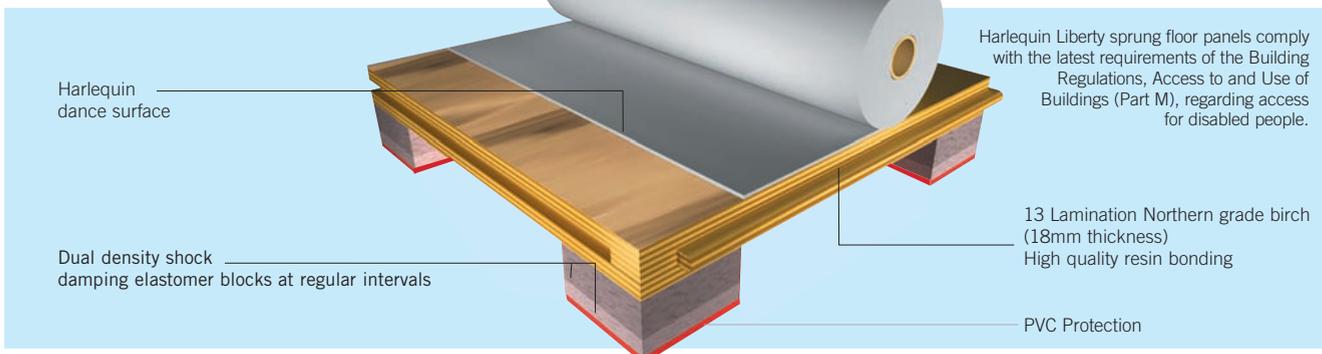
HARLEQUIN LIBERTY™ PORTABLE SPRUNG FLOOR PANELS

Harlequin Liberty sprung floor panels are available in both portable and permanent versions. Oil-tempered hardboard (Masonite) is attached to the underside of the portable panels to

- Ease sliding of the panels into position
- Protect the elastomer blocks
- Allow the panels to be stacked more readily

Edge trim and ramps are available for stage use or where the sprung floor does not extend to the walls of the studio. Harlequin Liberty portable panels are also available with matt black surface for stage use.

HARLEQUIN LIBERTY™ PORTABLE SPRUNG FLOOR PANELS



DIN STANDARD 18032 PART II TEST RESULTS

	Shock Absorption	Vertical Deformation	Area Deflection	Rolling Load
Requirement	Min 53%	Min. 2.3mm	Max 15%	Min 1500 N
Harlequin Liberty	67%	4.1mm	12.8%	>1500 N

STORAGE CART FOR HARLEQUIN LIBERTY™ PORTABLE PANELS

Harlequin panel storage carts are designed to protect the Harlequin Liberty panels and provide an easy and safe way of moving them from place to place, whether from stage to scenery dock or on and off vehicles when touring.

Sturdily made of black scratch-resistant powder-coated steel, each cart is mounted on four swivel wheels with non-marking rims and brakes.

The front gate of the cart is removable and the two sides hinge back fully to allow access to the cart from three sides. Panels are loaded five high onto support bars, to prevent crushing the lower panels. Finally, the sides are hinged back into place, the front gate replaced and locked into position.

Each cart has a capacity of 20 full size Harlequin Liberty portable panels, with half size panels being loaded side by side. There is a removable storage box at the bottom of the cart for ramps and accessories. In addition, there are two fork pockets under the cart to enable a fully-loaded cart to be handled by fork lift truck and the frame of the cart can readily be secured by straps when loading in a vehicle for road transport.

SPECIFICATION

- Unladen weight:** 370 kg (814 lbs)
- Capacity:** 20 full size panels or equivalent full and half size panels
- Wheels:** 4 swivel braked wheels
Wheel diameter 152mm (6")
Non-marking rims



The Harlequin storage cart loaded with Liberty panels



Installing the panels



Fitting the edge trim

Cirque du Soleil, Las Vegas, USA (Studio)
 Conservatorio de Cadiz, Spain (Standfast)
 Finnish National Opera, Helsinki, Finland (Cascade)
 Florida State University, Tallahassee, USA (Studio)
 Haelogaland Theater, Tromso, Norway
 Harvard University, Cambridge, USA (Cascade)
 Julliard School, Physical Therapy Department, New York City, USA (Cascade)
 Les Grands Ballet Canadiens, Montreal, Canada (Studio)
 LG Arts Center, Seoul, Korea
 Joffrey Ballet, Chicago, USA (Studio)
 María Pagés Flamenco Company, Madrid, Spain (Reversible)

Merce Cunningham Dance Company, New York City, USA (Cascade)
 North Carolina Dance Theater, Charlotte, USA (Studio)
 Novosibirsk State Opera, Novosibirsk, Russia (Studio)
 Nuovo Teatro di Bolzano, Bolzano, Italy (Studio)
 Nye Carte Blanche, Bergen, Norway (Studio)
 Old Globe Theater, San Diego, USA (Cascade)
 Oriental Arts Centre, Shanghai, China (Studio)
 Palucca Schule, Dresden, Germany (Studio)
 Riverdance at the Gershwin Theater, New York City, USA (Cascade)
 Royal Caribbean Cruise Lines, Miami, USA (Cascade)
 Semperoper, Dresden, Germany
 Slovenian National Theatre, Maribor, Slovenia
 Stadttheater Bern, Switzerland (Studio)

Tatar State Opera, Kazan, Russia (Cascade)
 Theater Basel, Switzerland
 Théâtre Danse et Mouvement, Luxembourg (Studio)
 Théâtre National de Chaillot, Paris, France
 Teatro del Canal, Madrid, Spain (Cascade)
 Teatro Municipal, Santiago, Chile (Reversible)
 Universidad Carlos III, Madrid, Spain (Reversible)
 Vic Ballet, Verona, Italy (Studio)
 Washington Ballet, Washington, USA (Studio)
 York University, Toronto, Ontario, Canada (Studio)
 Zurich Ballet, Switzerland (Cascade)

HARLEQUIN'S PORTABLE & PERMANENT VINYL FLOORS

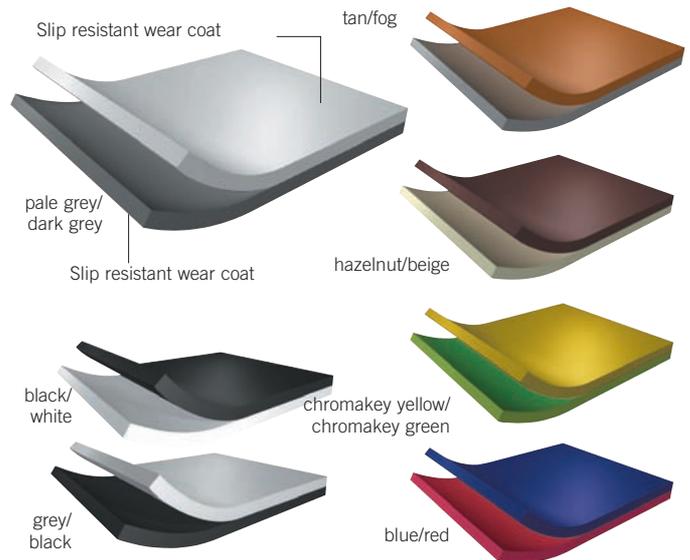
HARLEQUIN REVERSIBLE

Harlequin Reversible securely established itself years back as the classic double-sided stage floor. It is a calendared vinyl consisting of a complex "sandwich", providing a slip resistant surface on both sides. These special wear-coats are easy to maintain and they are approved by dancers as a loose-lay floor on stage and in the studio.

Harlequin Reversible is simple to unroll across your stage or dance studio. You just tape the seams and edges - and your floor's ready! When the show's over, quickly roll up your Harlequin and store it or move it to another venue.

Harlequin Reversible is a different colour on each side, so you can use it either side up. Two floors in one! And because Harlequin Reversible is a full two metres wide, you have fewer joins.

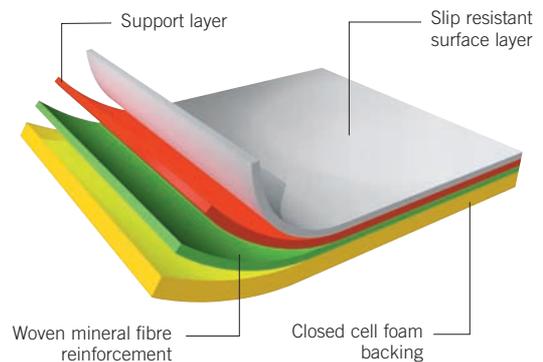
Harlequin Reversible is ideally laid on any hard smooth surface, such as a wooden stage, and is intended to be loose-laid.



HARLEQUIN STUDIO

Harlequin Studio is one of our special hardwearing floorcoverings designed for dance, studio and stage use. It is a complex vinyl construction incorporating a strong mineral fibre interply and a firm foam backing. The surface is produced from a hard-wearing vinyl and its formulation focuses on the demands of dancers. The result is a slip-resistant floor to reassure performers and a predictable surface to give confidence to dancers for demanding choreography and movement. The firm but lightweight foam backing helps to protect against hard subfloors.

Harlequin Studio stays firmly in place on the floor and is excellent for touring. It can be laid on any hard, smooth surface, e.g. particle board, hardwood, terrazzo, concrete, vinyl tile etc. It is an excellent surface for a sprung subfloor. For modest minimum quantities we can produce colours of your choice.



SPECIFICATIONS GUIDE

HARLEQUIN PRODUCT	ROLL WIDTH	ROLL LENGTH	THICKNESS	WEIGHT	COLOURS	FIRE RATING
Reversible	2m	10m, 15m, 18m, 20m, 25m	1.3mm	1.6kg/m ²	Pale grey/dark grey; black/white; mid grey/black; chromakey yellow/chromakey green (for TV); tan/fog; hazelnut/beige; blue/red	NF P 92-507 class M3
Studio	1.5m	10m, 15m, 18m, 20m, 25m, 30m	3mm	2.3kg/m ²	Black, grey	NF P 92-507 class M3
Cascade	2m	10m, 15m, 18m, 20m, 25m, 30m	2mm	2.6kg/m ²	Black, pale grey, dark grey, white. Special colours to order	NF P 92-507 class M3
Marine	2m	23m	2mm	3.4kg/m ²	Black	DIN 4102 B1 IMO FTPC Parts 2 & 5
Allegro	1.5m	10m, 15m, 18m, 20m, 25m	8.5mm	6kg/m ²	Black, grey	NF P 92-507 class M3
Tempo	2m	20m, 25m	3.7mm	3.13kg/m ²	Black, grey, maple strip effect	NF P 92-507 class M3
Fiesta	2m	20m, 25m	2mm	3kg/m ²	Oak strip effect	NF P 92-507 class M3
Standfast	2m	15m	3mm	3.98kg/m ²	Black, grey, royal grey	NF P 92-507 class M3



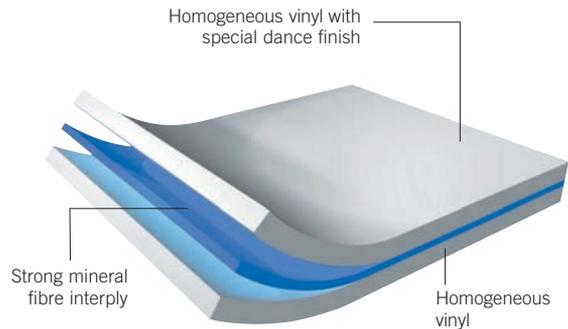
HARLEQUIN CASCADE

Harlequin Cascade is a reinforced sheet vinyl, painstakingly manufactured to high standards and is specified worldwide for loose-lay and permanent installation in dance studios. For modest minimum quantities we can produce colours of your choice.

Harlequin Cascade has delighted a generation of stage managers and professional dancers as the ultimate heavy-duty stage floor, which is ideal for dance.

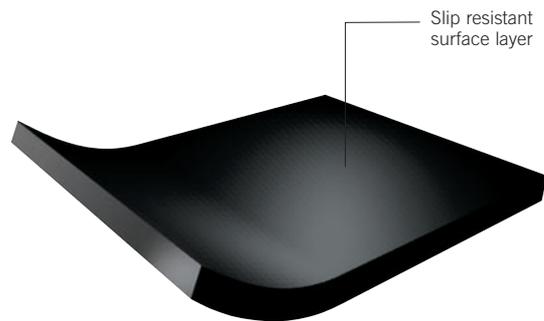
The surface has a silky smooth emboss which gives deceptively good grip and provides a good base for lighting designers. Cascade conveys a soft feel, which is described as "warmth", and this gives dancers an unmatched confidence for demanding choreography.

It also withstands general stage use, heavy props and sets etc.



HARLEQUIN MARINE

Harlequin Marine is an extremely high-quality contract-quality flooring. Intended for permanent installation only, it has a hardwearing surface with a slightly marbled effect to resist scuffing and hide marks. Since Harlequin Marine conforms to marine standard IMO FTPC Parts 2 & 5, it is suitable for installation in confined spaces on marine vessels and is therefore ideal for scenery docks on cruise ships.



APPLICATION GUIDE

HARLEQUIN VINYL FLOORS (dance surface)

HARLEQUIN PRODUCT	BALLET	CONTEMPORARY	JAZZ/THEATRE	TAP/ PERCUSSIVE	OTHER e.g. FLAMENCO, ETHNIC, FOLK	PERMANENT	TEMPORARY
Reversible	●●●	●●●	●●●	●●	Refer to Harlequin	✗	✓
Studio*	●●●	●●●	●●	—		✓	✓
Cascade*	●●●	●●●	●●●	●●		✓	✓
Allegro*	●●	●●●	●●	—		✓	✓
Tempo*	●●	●●●	●●	—		✓	✓
Fiesta*	●●	●●	●●●	●●		✓	✗
Standfast	●●	●●	●●●	●●●		✓	✗

● The more dots, the more suitable the floor for the particular type of dance

* These floors are mineral fibre-reinforced and may be laid semi-permanently into double-sided tape and with welded seams.

■ See note about tap dance at the foot of page 3

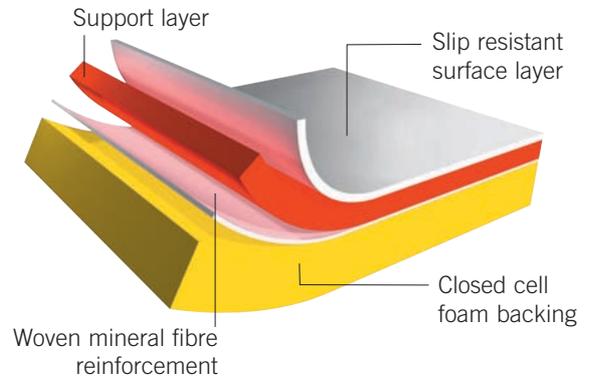
HARLEQUIN'S PORTABLE & PERMANENT VINYL FLOORS

HARLEQUIN ALLEGRO

Harlequin Allegro was developed as a loose-lay dance and aerobics floor to protect against hard subfloors.

Harlequin Allegro is the thickest roll-out dance floor available in the world. In beautiful plain colours, it is made by reinforcing a vinyl dance floor with a tough fibre interply, then backing this with a firm foam cushioning for resilience. The result is a "point-elastic" floor almost 9mm thick!

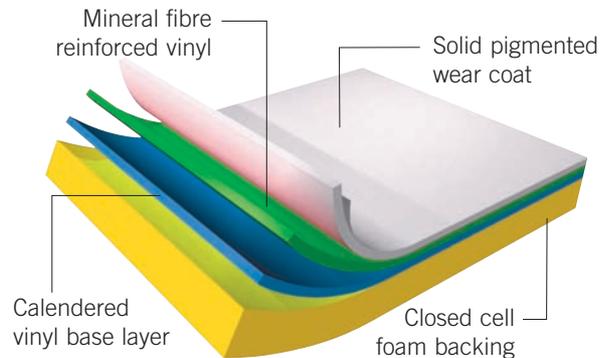
Harlequin Allegro is the quick and simple answer wherever you need a point-elastic floor to give a measure of instant protection against rock-hard subfloors. Simply choose whether you want it permanently installed, or loose-laid.



HARLEQUIN TEMPO

Harlequin Tempo is a floor particularly suited to the requirements of contemporary or barefoot dance, but also works as a multi-purpose performance surface. Thicker than Harlequin Studio, Tempo provides added protection against hard sub-floors.

Harlequin Tempo can be loose-laid, but is also perfect as a permanent surface on our sprung floor systems. With its tough wear coat, it resists scuffing and cleans easily.

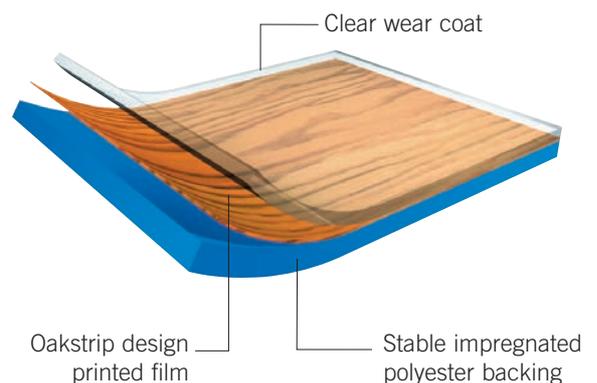


HARLEQUIN FIESTA

Harlequin Fiesta was developed because we saw a clear need for a floor for dance and drama studios which looked exactly like wood, but without all the associated problems of cleaning and maintenance.

Harlequin Fiesta is for permanent installation, when the joints are welded to provide a continuous performance surface. It can be laid on any hard smooth sub-floor and is an excellent multi-purpose surface for our sprung floor systems.

Harlequin Fiesta stands up to the rigours of percussive dance, such as tap and Irish dance, but is great for social dancing and for all kinds of general activities. It is not recommended for ballet at intermediate or professional level (See also paragraph about tap dance at the foot of page 3).



HARLEQUIN STANDFAST

Harlequin Standfast is an extremely hardwearing and contract-quality flooring. It is intended for permanent installation into adhesive, when the joints are heat welded to form a continuous performance surface.

Harlequin Standfast has a slip-resistant surface and is ideal as a permanent multi-purpose dance and stage flooring for heavy-duty use.



OUR INSTALLATION SERVICE

Harlequin Activity, Liberty and WoodSpring Basketweave permanent sprung floors are fitted by Harlequin's own Contracts Division as part of our total package to ensure your new floor is correctly installed and is fully compliant with current regulations and standards.

Our Contracts Division is also expert in the installation of other permanent vinyls, conventional wood floors and even floors to appropriate custom design.

OUR INSTALLATION SERVICE:

- Initial guidance in selecting the most appropriate floor for your requirements
- Design of floors to suit existing spaces and conversions
- Design of floors for new build to architect's plans
- Advice on subfloor preparation
- Supply and installation of floors and accessories
- Harlequin on-site installation team to meet your building programme timescales
- Project management for duration of the project
- Unconditional guarantee against defects in workmanship
- Long-term performance warranties

ACCESSORIES

In addition to our wide range of floors, Harlequin also produces accessories, some of which are featured below:

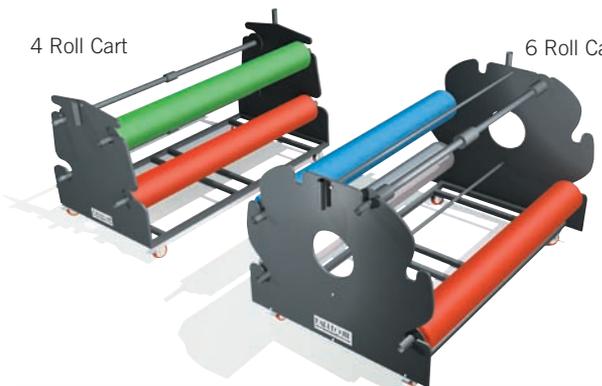
BALLET BARRES Single and double bars. Wall-mounted and freestanding.



ROLL STORAGE CART

4 Roll Cart

6 Roll Cart



BAGS & STRAPS FOR STORING THE PORTABLE VINYL



TAPES



CLEANING & MAINTENANCE



Ask for our brochures about these products.

CASE STUDY 1

NEWPORT THEATRE AND ARTS CENTRE

PROJECT: The Riverfront, Newport Theatre & Arts Centre, Moderator Wharf, Newport, South Wales

ARCHITECTS: Austin Smith Lord, Cardiff

MAIN CONTRACTOR: E. Turner & Sons, Cardiff

DESCRIPTION OF INSTALLATION: The client had specified a hardwood surface, and the architects originally considered Harlequin Liberty panels, but because of the variety of different dance styles to take place in the dance studio, Activity was finally chosen. A conventional wooden sprung floor was discounted as not being suitable for dancers.

NOTES: The Riverfront is owned, managed and funded by Newport City Council. It was awarded a lottery grant by The Arts Council of Wales towards its construction, and a further grant from the Welsh Assembly Government was awarded for the construction of a purpose-built gallery for the mediaeval ship that was discovered on the site.

The building was awarded Welsh Building of the Year 2005.

FLOOR PLAN

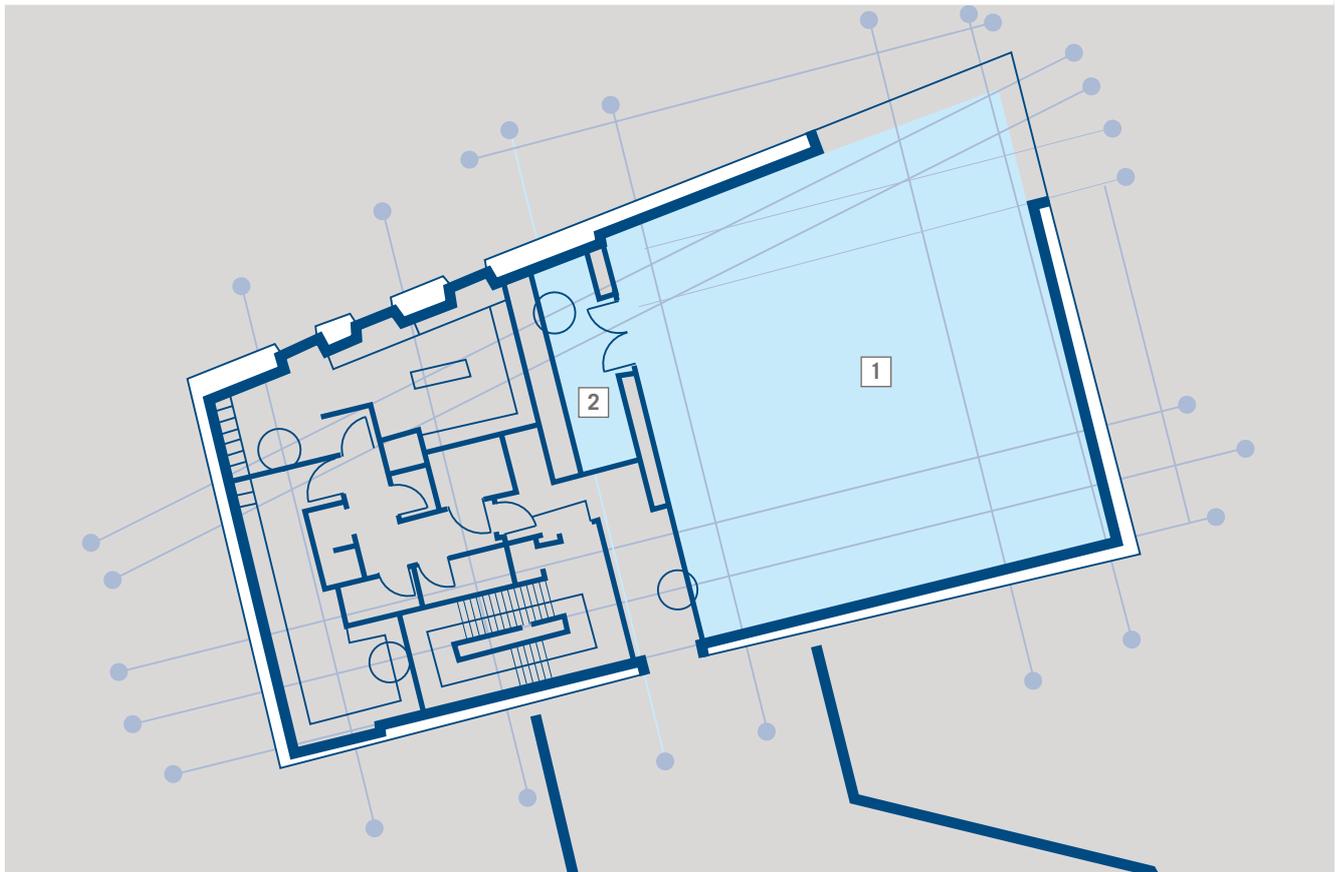
 Harlequin Activity™ Floor

FLOOR DIMENSIONS

1 Dance studio - 138m²

2 Ante room - 8m²

Total area - 146m²



CASE STUDY 2

JERWOOD SPACE

PROJECT: Jerwood Space, London

ARCHITECTS: Munkenbeck & Marshall, London

DESCRIPTION OF INSTALLATION: Harlequin Activity floor with Fiesta surface installed in two new studios.

FLOOR PLAN

Harlequin Activity™ Floor

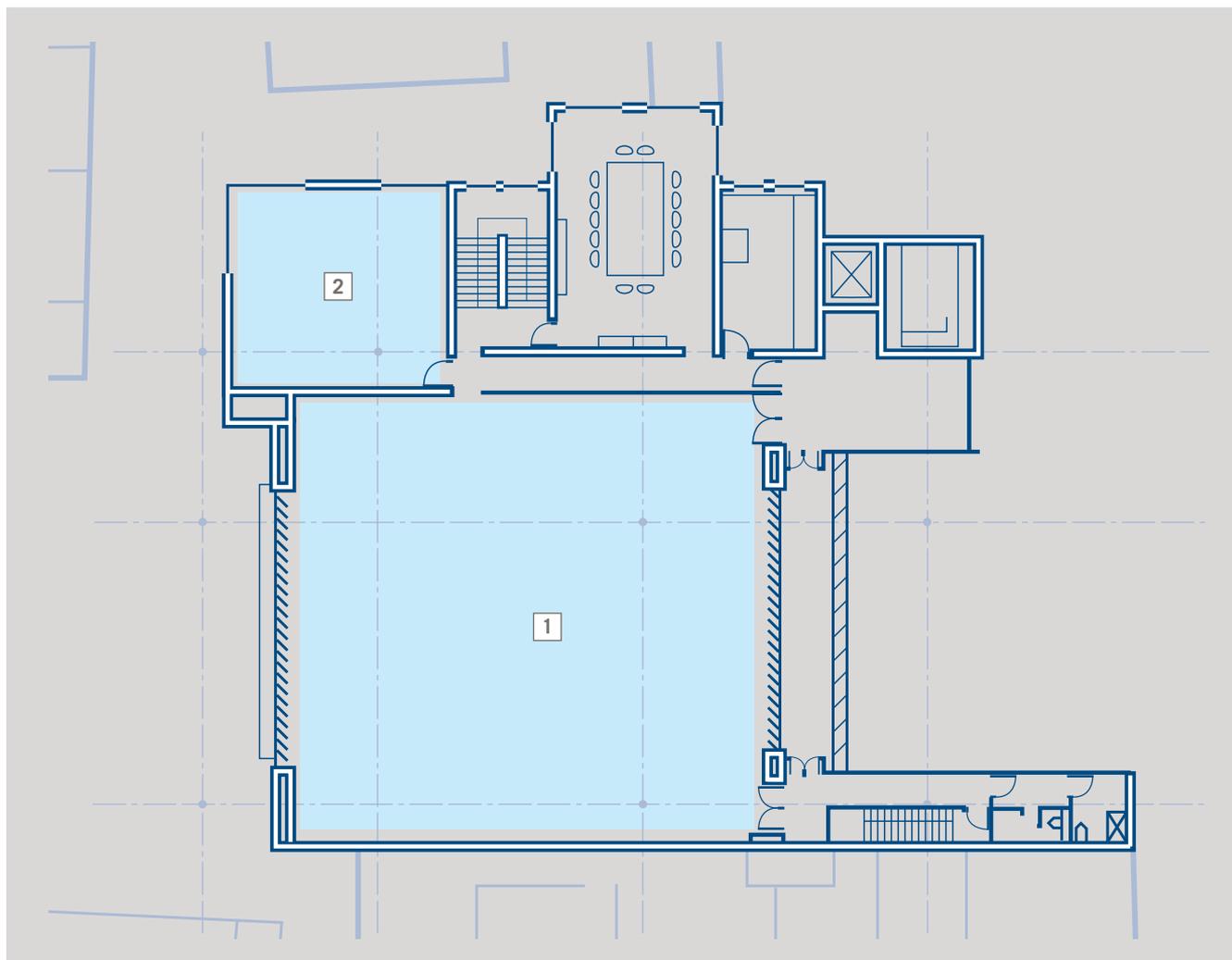
FLOOR DIMENSIONS

1 15.7m x 16.2m

Total area - 255m²

2 7.2m x 6.6m

Total area - 48m²



CASE STUDY 3

EDINBURGH'S TELFORD COLLEGE

PROJECT: Edinburgh's Telford College, Edinburgh, Scotland

ARCHITECTS: HOK (Hellmuth, Obata & Kassabaum)

DESCRIPTION OF INSTALLATION: Harlequin Activity sprung floor with Harlequin Standfast surface installed in three separate dance studios. Harlequin Allegro installed in Performing Arts Studio of 133m². A portable Harlequin Liberty sprung floor, totalling 28 large and eight small panels complete with ramps, edge trim and two wheeled storage carts, was supplied for use as a portable touring sprung performance floor.

NOTES: Conventional wooden sprung floors had originally been specified and installed, but were removed and replaced with Harlequin Activity floors to make the studios suitable for dance.

FLOOR PLAN

Harlequin Activity™ Floor

FLOOR DIMENSIONS

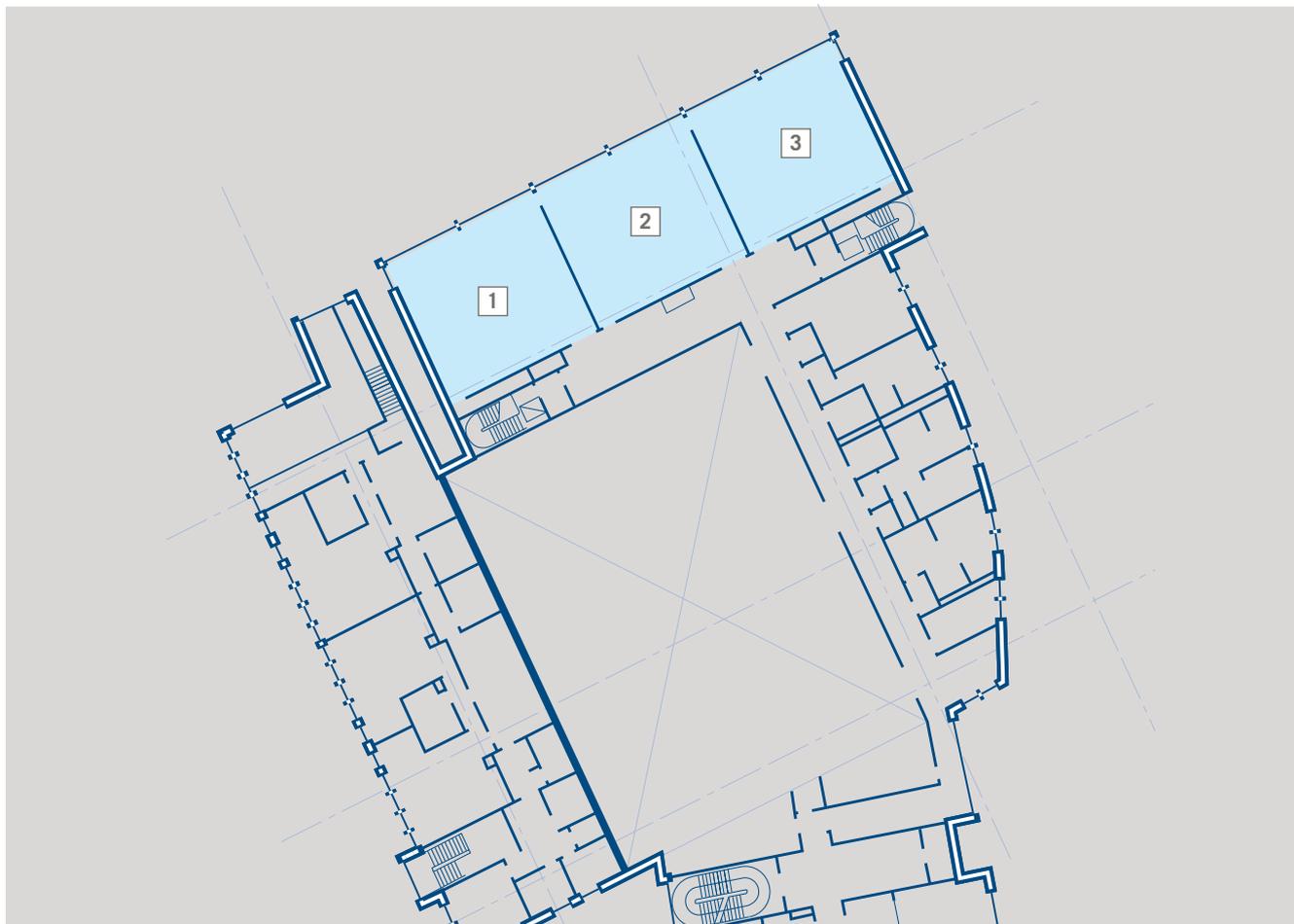
3 x Dance Studios

1 12m x 10m

2 12m x 10m

3 12m x 10m

Total area: 360m²



CASE STUDY 4

THE DANCE BARNs

NATIONAL DANCE INSTITUTE

PROJECT: The Dance Barns, National Dance Institute, Sante Fe, New Mexico

ARCHITECTS: Duty & Germanas

MAIN CONTRACTOR: N/A

DESCRIPTION OF INSTALLATION: Harlequin Activity sprung floor with Harlequin Cascade surface installed in two separate studios.

FLOOR PLAN

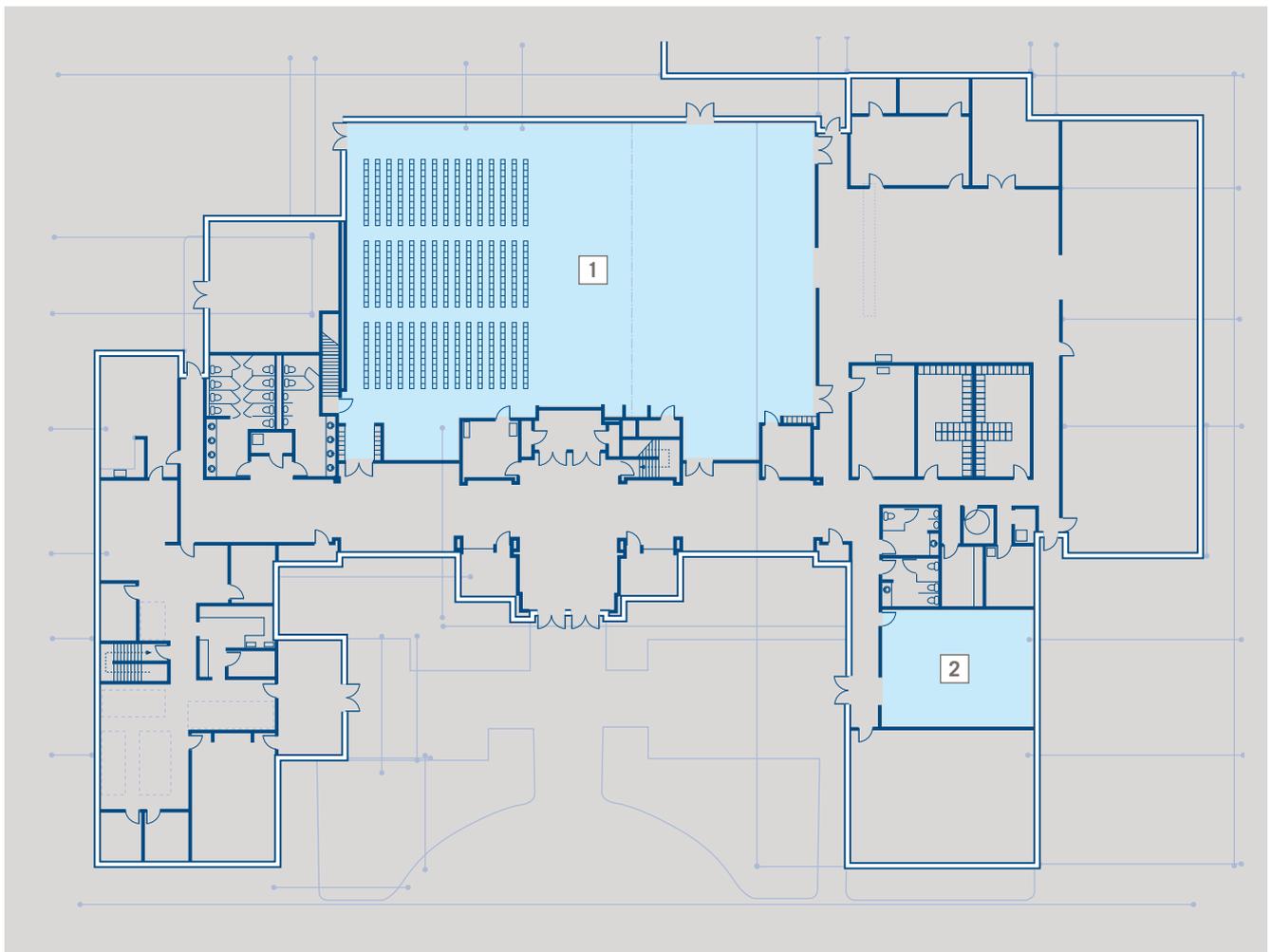
 Harlequin Activity™ Floor

FLOOR DIMENSIONS

1 21.3m x 32.6m

2 8.2m x 10.4m

Total area: 781m²



CASE STUDY 5

GRAND THÉÂTRE DE BORDEAUX

PROJECT:	Grand Théâtre de Bordeaux, France
ARCHITECTS:	M. Lamendin
MAIN CONTRACTOR:	L'Atelier d'Agencement
DESCRIPTION OF INSTALLATION:	Harlequin Activity sprung floor with Studio surface was installed in a semi-circular shape in the Salle des Peintres, covering 255m ² of the total 500m ² space.
NOTES:	Conversion of room into dance studio with the perimeter of the room designed as a warming-up area, since the height under the original beams was not sufficient for dance practice. The Salle des Peintres is situated immediately above the main opera room and Harlequin Activity was preferred for its acoustic properties. Floor traps were fitted for access to the opera chandelier.

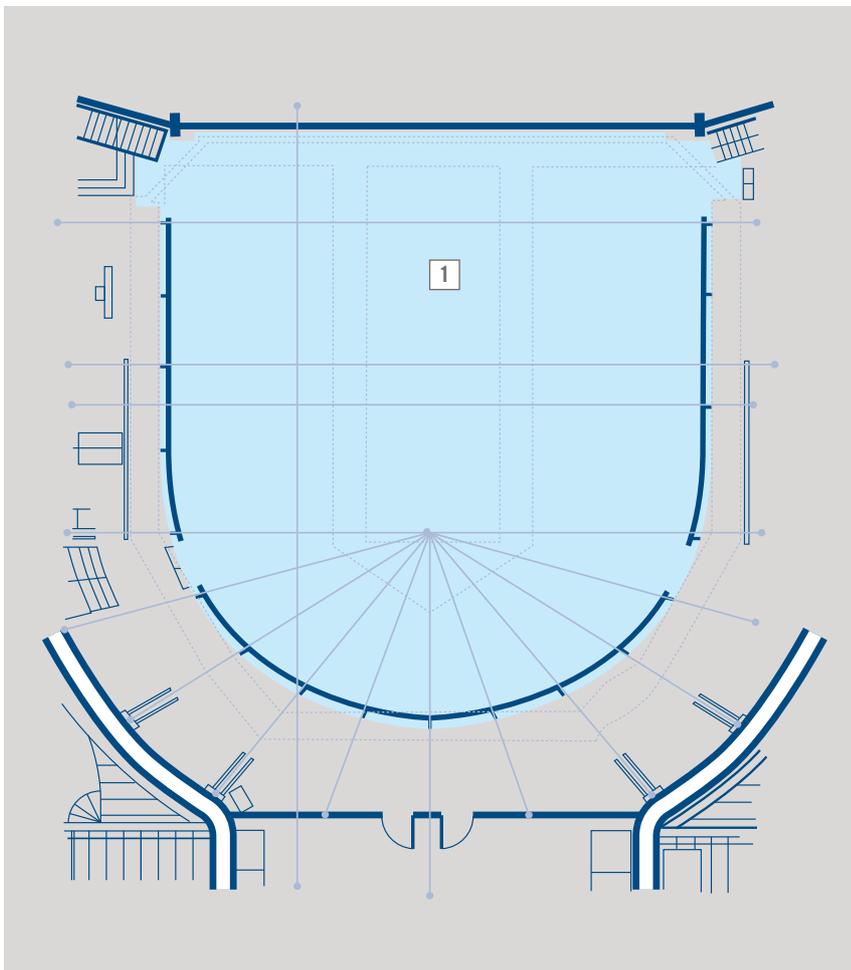
FLOOR PLAN

■ Harlequin Activity™ Floor

FLOOR DIMENSIONS

1 15.75m x 17.83m max at curved end

Total area: 255m²



CASE STUDY 6

LABAN



PROJECT: Laban, London

ARCHITECTS: Herzog & de Meuron, London

MAIN CONTRACTOR: Ballast Construction

DESCRIPTION OF INSTALLATION: Harlequin Liberty sprung panels with Harlequin Studio vinyl surface. 13 dance studios and 1 clinic, Total of 1,943 m²

NOTES: Purpose-built Dance and Performing Arts College.

FIRST FLOOR PLAN

■ Harlequin Liberty™ Floor

FLOOR DIMENSIONS

Ground Floor

- 1 12.7m x 9.3m
- 2 17.4m x 9.8m
- 3 8.1m x 6.35m

Total area: 340m²

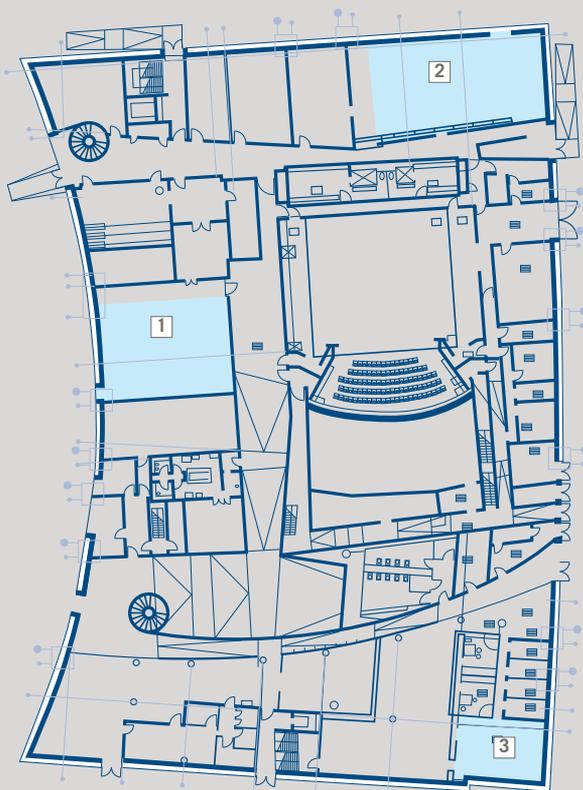
First Floor

- 4 14m x 9.85m
- 5 17.4m x 9.8m
- 6 13.8m x 7.2m
- 7 10.4m x 6.25m
- 8 11.9m x 8.2m
- 9 17.2m x 8.5m
- 10 14.3m x 11.7m
- 11 19.5m x 12m
- 12 14.1m x 12.2m
- 13 8.3m x 13.1m
- 14 15.6m x 13.1m

Total area: 1,603m²



Ground Floor



First Floor



CASE STUDY 7

BARD COLLEGE

PROJECT:

Richard B. Fisher Center for the Performing Arts at Bard College, Annadale-on-Hudson, New York State

ARCHITECTS:

Frank O. Gehry & Associates, Inc.

MAIN CONTRACTOR:

Daniel O'Connell's Sons, Inc.

DESCRIPTION OF INSTALLATION:

Harlequin Liberty portable sprung panels for use on the two theatre stages. Total of 111 large panels, 22 small panels, complete with ramps and edge trim and six wheeled storage carts. Harlequin Cascade vinyl for use as a roll-out performance surface.

FLOOR PLAN

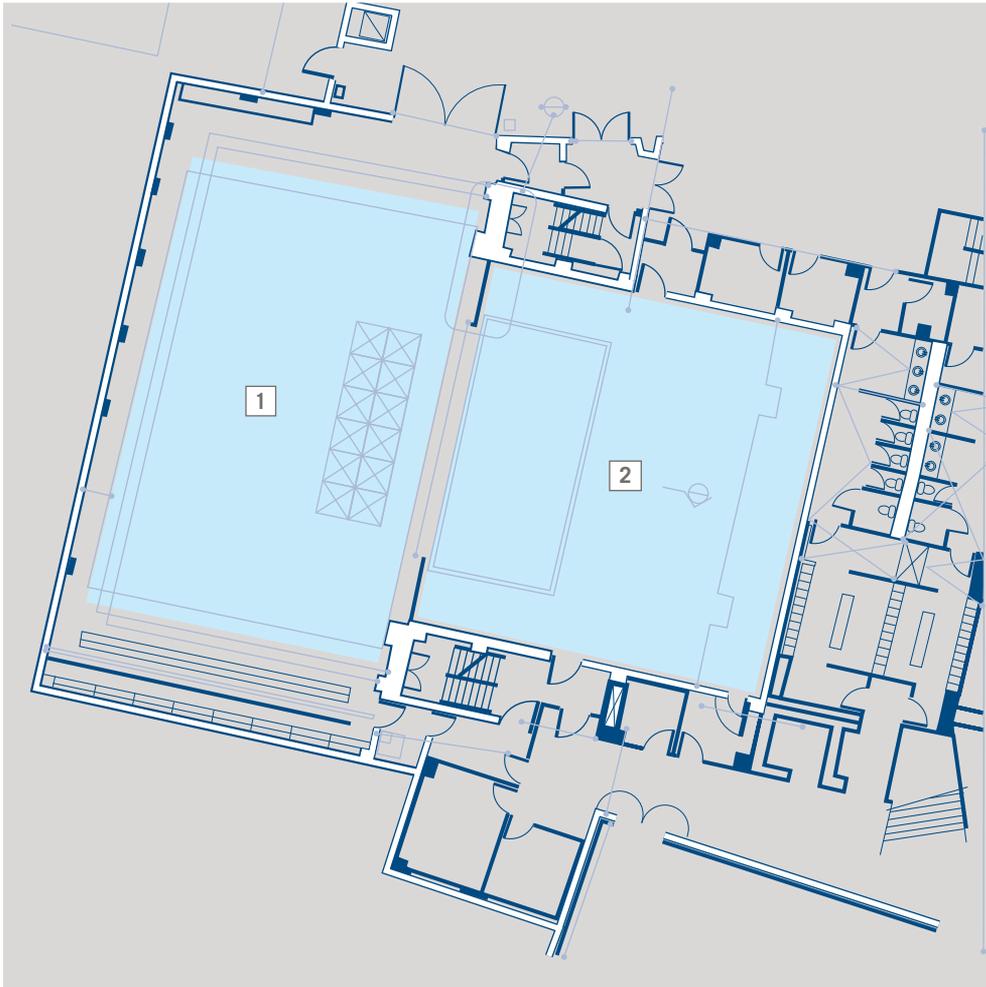
 Harlequin Liberty™ Floor

FLOOR DIMENSIONS

1 10.7m x 20.4m

2 14.3m x 17.1m

Total area: 463m²



CASE STUDY 8

ESPLANADE

PROJECT: Esplanade Theatre, Singapore

ARCHITECTS: DP Architects

DESIGN: British Harlequin plc

DESCRIPTION OF INSTALLATION:

Harlequin Liberty portable sprung panels, custom-sized to fit into the existing ballet wagon, which is stored horizontally below the stage and moved into place on a motorised track and elevator. Six custom traps were manufactured on site and installed within the Liberty panels on the wagon. Extra Liberty panels were supplied for an infill area to extend the performance area downstage. Harlequin Cascade was supplied for use as a roll-out surface.

NOTES: Additional reinforced Liberty panels were supplied to be used as replacements in the ballet wagon, when required to withstand heavy scenery loadings.

FLOOR PLAN

Harlequin Liberty™ Floor

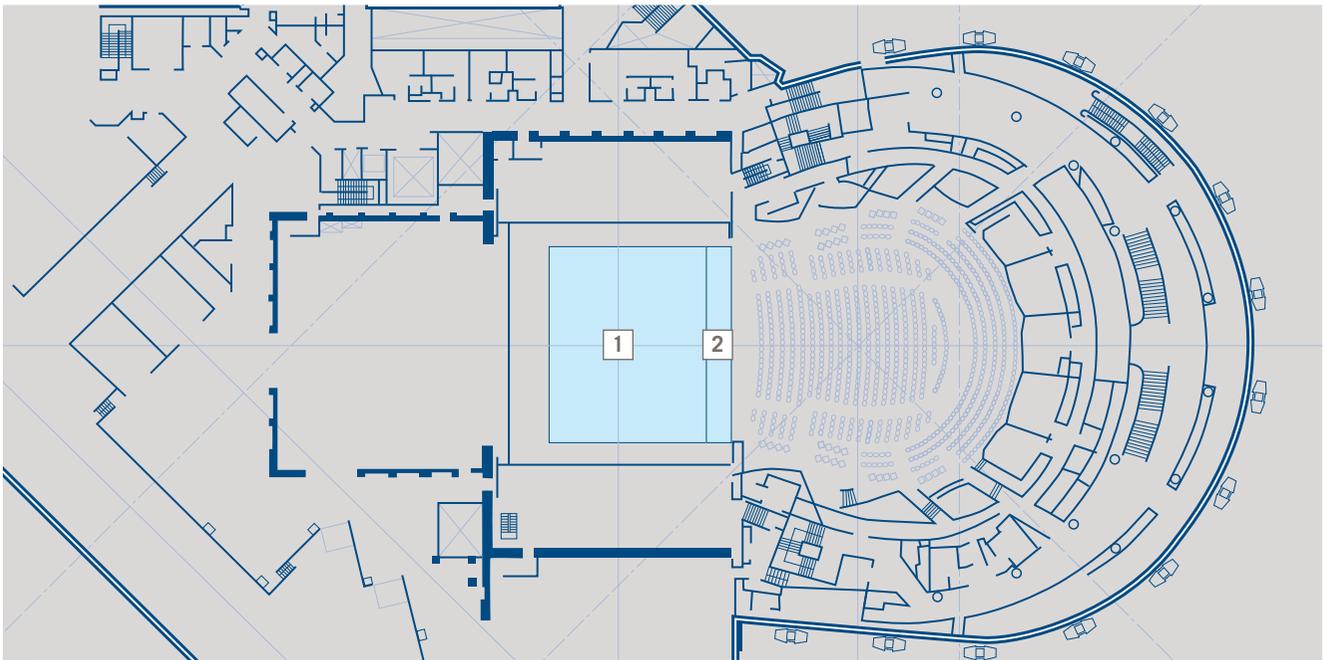
FLOOR DIMENSIONS

1 Main wagon dimensions:
18.98m x 17.48m

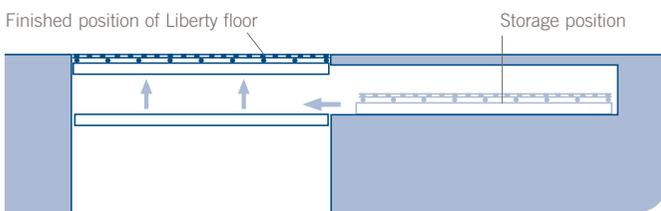
Total area: 332m²

2 Infill panels 18.98m x 2.49m

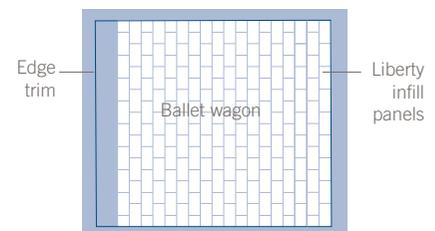
Total area: 47m²



Cross section of ballet wagon



Plan view of Liberty panels





HARLEQUIN

British Harlequin PLC

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Tel: +44 (0) 1892 514888 Fax: +44 (0) 1892 514222 Email: enquiries@harlequinfloors.com

American Harlequin Corporation

1531 Glen Avenue, Moorestown, NJ 08057, USA
Tel: +1 (1) 856 234 5505 Fax: +1 (1) 856 231 4403 Email: dance@harlequinfloors.com

Harlequin Europe SA

29 rue Notre-Dame, L-2240 Luxembourg
Tel: +352 46 44 22 Fax: +352 46 44 40 Email: info@harlequinfloors.com

Harlequin Australasia Pty Ltd

P.O.Box 1028, 36A Langston Place, Epping, NSW 1710, Australia
Tel: +61 (02) 9869 4566 Fax: +61 (02) 9869 4547 Email: contact@harlequinfloors.com



THE WORLD DANCES ON HARLEQUIN FLOORS ®

LONDON LUXEMBOURG PARIS LOS ANGELES PHILADELPHIA FORT WORTH SYDNEY

CLASSEMENT DE LA REACTION AU FEU CONFORMEMENT A L'EN 13501-1 + A1: 2013

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1 + A1: 2013

Commanditaire <i>Sponsor</i>	HARLEQUIN EUROPE 29 rue Notre Dame 2240 LUXEMBOURG LUXEMBOURG
Elaboré par <i>Prepared by</i>	LABORATOIRE NATIONAL DE METROLOGIE ET D'ESSAIS Laboratoire de Trappes 29, avenue Roger Hennequin 78197 TRAPPES CEDEX FRANCE
N° de l'organisme notifié <i>Notified Body No</i>	Notification par l'Etat Français auprès de la Commission Européenne sous le N° 0071 <i>Notified by French government to EC N° 0071</i>
Nom du produit <i>Product name</i>	HARLEQUIN DUO PRO / REVERSIBLE PRO
N° de rapport de classement <i>Classification report No</i>	P162765
Numéro d'émission <i>Issue number</i>	DE/9
Date d'émission <i>Date of issue</i>	07/11/2016

1. INTRODUCTION / INTRODUCTION

Le présent rapport de classement définit le classement attribué à HARLEQUIN DUO PRO / REVERSIBLE PRO conformément aux modes opératoires donnés dans l'EN 13501-1 + A1: 2013.

This classification report defines the classification assigned to HARLEQUIN DUO PRO / REVERSIBLE PRO in accordance with the procedures given in EN 13501-1+A1 : 2013.

2. DETAILS DU PRODUIT CLASSE / DETAILS OF CLASSIFIED PRODUCT

2.1. GENERALITES / GENERAL

Le produit, HARLEQUIN DUO PRO / REVERSIBLE PRO, est défini comme Sols sportifs (NF EN 14904 : sols multisports intérieurs)

The product, HARLEQUIN DUO PRO / REVERSIBLE PRO, is defined as Surfaces for sports areas (NF EN 14904 : indoor surfaces for multi-sports use):

2.2. DESCRIPTION DU PRODUIT / PRODUCT DESCRIPTION

Le produit, HARLEQUIN DUO PRO / REVERSIBLE PRO, est décrit ci-dessous ou dans les rapports d'essai fournis en appui du classement détaillé en 3.1.

The product, HARLEQUIN DUO PRO / REVERSIBLE PRO, is described below or is described in the test reports provided in support of classification listed in 3.1.

Suite du rapport page suivante
Test report following next page

Nom et adresse du demandeur : <i>(Sponsor's name and address)</i>	HARLEQUIN EUROPE 29 rue Notre Dame 2240 LUXEMBOURG LUXEMBOURG
Référence commerciale : <i>(Commercial designation - trade mark)</i>	HARLEQUIN DUO PRO / REVERSIBLE PRO
Composition sommaire : <i>(Summary composition)</i>	Revêtement de sol PVC, composé de 2 couches de PVC calandrées et antidérapantes avec en son centre une couche de fibre minérale <i>PVC floorcovering, with 2 PVC calendered and non slip layers and a mineral layer in its centre</i>
Masse surfacique : <i>(Mass per unit square meter)</i>	2.25 kg/m ²
Épaisseur testée : <i>(Tested thickness)</i>	1.5 mm
Couleur : <i>(Colour)</i>	Noir et gris <i>Black and grey</i>
Ignifugation (oui ou non) : <i>(Fireproofing - yes or no)</i>	Non <i>No</i>
Cas de pose collée : <i>(Case of glued together pose)</i>	En pose libre <i>In free standing</i>

Informations transmises par le demandeur.
Information given by the sponsor.

Suite du rapport page suivante
Test report following next page

3. RAPPORTS D'ESSAI & RESULTATS D'ESSAI EN APPUI DE CE CLASSEMENT
TEST REPORTS & TEST RESULTS IN SUPPORT OF CLASSIFICATION

3.1. RAPPORTS D'ESSAI / TEST REPORTS

Nom du laboratoire <i>Laboratory name</i>	Nom du commanditaire <i>Sponsor name</i>	N° du rapport d'essai <i>Test report N°</i>	Méthode d'essai <i>Test method</i>
LNE	HARLEQUIN EUROPE 29 rue Notre Dame 2240 LUXEMBOURG LUXEMBOURG	P162765 - DE/7	NF EN ISO 11925-2
LNE	HARLEQUIN EUROPE 29 rue Notre Dame 2240 LUXEMBOURG LUXEMBOURG	P162765 - DE/8	NF EN ISO 9239-1

Suite du rapport page suivante
Test report following next page

3.2. RÉSULTATS D'ESSAI / TEST RESULTS

Méthode d'essai <i>Test method</i>	Produit (usine) <i>Product (factory)</i>	Nombre d'épreuves <i>Number of tests</i>	Paramètres <i>Parameters</i>	Résultats / Results	
				Paramètre continu Moyenne (m) <i>Continuous parameter Average (m)</i>	Paramètres conformité <i>Conformity parameters</i>
NF EN ISO 11925-2	HARLEQUIN DUO PRO / REVERSIBLE PRO	6	Temps d'exposition du brûleur 15 s <i>Flame application time 15 s</i> Fs <= 150 mm	-	Oui Yes
			Temps d'exposition du brûleur 30 s <i>Flame application time 30 s</i> Fs <= 150 mm	-	-
			Gouttelette/particules enflammées Inflammation du papier filtre <i>Flaming droplets Ignition of the filter paper</i>	-	-
NF EN ISO 9239-1	HARLEQUIN DUO PRO / REVERSIBLE PRO	3	Eclairement critique (kW/m ²) <i>Critical flux (kW/m²)</i>	10.3	-
			Production de fumée (%.min) <i>Smoke production (%.min)</i>	181	-

(-) signifie / means : non applicable / no applicable

4. CLASSEMENT ET DOMAINE D'APPLICATION
CLASSIFICATION AND FIELD OF APPLICATION

4.1. REFERENCE DE CLASSEMENT / REFERENCE OF CLASSIFICATION

Le présent classement a été effectué conformément à l'EN 13501-1 + A1: 2013.
This classification has been carried out in accordance with EN 13501-1 + A1 : 2013.

4.2. CLASSEMENT / CLASSIFICATION

Le produit, HARLEQUIN DUO PRO / REVERSIBLE PRO, a été classé en fonction de son comportement au feu :

The product, HARLEQUIN DUO PRO / REVERSIBLE PRO, in relation to its reaction to fire behaviour is classified :

Bfl

Le classement supplémentaire en relation avec la production de fumée est :

The additional classification in relation to smoke production is :

s1

Le classement supplémentaire en relation avec les gouttelettes/particules enflammées est :

The additional classification in relation to flaming droplets particles is :

-

Le format du classement de réaction au feu pour les revêtements de sol est :

The format of the reaction to fire classification for floorings is:

Comportement au feu <i>Fire behaviour</i>	Production de fumées <i>Smoke production</i>
Bfl	s1

Classement de réaction au feu : <i>Reaction to fire Classification :</i>	Bfl-s1
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Pour déclarer le classement, il n'a pas été tenu explicitement compte de l'incertitude associée au résultat.

To state the classification, the uncertainty associated with the result has not been explicitly taken into account.

Suite du rapport page suivante
Test report following next page

4.3. DOMAINE D'APPLICATION / FIELD OF APPLICATION

Le présent classement est valable pour les paramètres suivants liés au produit :
This classification is valid for the following product parameters:

- le classement est valable pour les produits cités en § 2.2 ou formulés de manière strictement identique dans le site de production cité ;
- the classification is valid for the products mentioned in § 2.2 or strictly stipulated in the quoted production site ;
- *quelle que soit la couleur*
- whatever the color

Le classement est valable pour les conditions d'utilisation finales suivantes :
The classification is valid for the following end use conditions:

- En pose libre ;
- In free standing
- En pose collée/adhésivée ;
- In glued/adhesive standing
- Sur substrats en bois et substrats classés A1 et A2-s1,d0.
- On wooden substrates and substrates classed A1 and A2-s1,d0.

Les résultats d'essai obtenus sur un substrat normalisé conforme à l'EN 13238 sont applicables si la masse volumique du substrat pour l'utilisation finale est supérieure ou égale à 75 % de la valeur nominale de la masse volumique du substrat normalisé.

- soit 1350 kg/m³ pour un support classé A1 et A2-s1,d0.
- soit 510 kg/m³ pour un support en bois

Test results using a standard substrate complying with EN 13238 are applicable if the density of the end use substrate is at least 75 % of the nominal value of the density of that standard substrate.

- *meaning 1350 kg/m³ for a classified substrate A1 and A2-s1,d0.*
- *meaning 510 kg/m³ for a substrate of wood.*

5. LIMITATIONS / LIMITATIONS

Le présent document de classement n'est pas une approbation, ni une certification de type produit.

This classification document does not represent type approval or certification of the product.

Trappes, le 7 novembre 2016
Trappes, 7th November 2016



Le Responsable Technique
Technical Officer



**CLASSEMENT DE LA REACTION AU FEU
CONFORMEMENT A L'EN 13501-1 + A1: 2013**
*CLASSIFICATION OF REACTION TO FIRE
IN ACCORDANCE WITH EN 13501-1 + A1: 2013***Commanditaire**
*Sponsor*HARLEQUIN EUROPE SA
29 rue Notre Dame
2240 LUXEMBOURG
LUXEMBOURG**Elaboré par**
*Prepared by*LABORATOIRE NATIONAL DE METROLOGIE ET D'ESSAIS
Laboratoire de Trappes
29, avenue Roger Hennequin
78197 TRAPPES CEDEX
FRANCE**N° de l'organisme notifié**
*Notified Body No*Notification par l'Etat Français auprès de la
Commission Européenne sous le N° 0071
*Notified by French government to EC N° 0071***Nom du produit**
Product name

HARLEQUIN LIBERTY

N° de rapport de classement P162155
*Classification report No***Numéro d'émission**
Issue number

DE/19

Date d'émission
*Date of issue*15/12/2016
2016/12/15

1. INTRODUCTION / INTRODUCTION

Le présent rapport de classement définit le classement attribué à HARLEQUIN LIBERTY conformément aux modes opératoires donnés dans l'EN 13501-1 + A1: 2013.

This classification report defines the classification assigned to HARLEQUIN LIBERTY in accordance with the procedures given in EN 13501-1+A1 : 2013.

2. DETAILS DU PRODUIT CLASSE / DETAILS OF CLASSIFIED PRODUCT

2.1. GENERALITES / GENERAL

Le produit, HARLEQUIN LIBERTY, est défini comme Sols sportifs (NF EN 14904 : sols multisports intérieurs)

The product, HARLEQUIN LIBERTY, is defined as Surfaces for sports areas (NF EN 14904 : indoor surfaces for multi-sports use):

2.2. DESCRIPTION DU PRODUIT / PRODUCT DESCRIPTION

Le produit, HARLEQUIN LIBERTY, est décrit ci-dessous ou dans les rapports d'essai fournis en appui du classement détaillé en 3.1.

The product, HARLEQUIN LIBERTY, is described below or is described in the test reports provided in support of classification listed in 3.1.

Suite du rapport page suivante
Test report following next page

Nom et adresse du demandeur : <i>(Sponsor's name and address)</i>	HARLEQUIN EUROPE 29 rue Notre Dame 2240 LUXEMBOURG LUXEMBOURG
Référence commerciale : <i>(Commercial designation - trade mark)</i>	HARLEQUIN LIBERTY
Composition sommaire : <i>(Summary composition)</i>	Multiplis sur plots <i>Plywood on blocks</i>
Epaisseurs : <i>(thicknesses)</i>	Multiplis 18 mm sur plots 19 mm <i>Plywood 18 mm on blocks 19 mm</i> Total : 37 mm
Couleur : <i>(Colour)</i>	Bouleau <i>Birch</i>
Ignifugation (oui ou non) : <i>(Fireproofing - yes or no)</i>	Non <i>No</i>
Cas de pose collée : <i>(Case of glued together pose)</i>	En pose libre <i>In free standing</i>
Condition finale d'utilisation : <i>(End use condition)</i>	Plancher de danse démontable, posé flottant <i>Removable dance floor, laid floating</i>

Informations transmises par le demandeur.
Information given by the sponsor.

Suite du rapport page suivante
Test report following next page

3. RAPPORTS D'ESSAI & RESULTATS D'ESSAI EN APPUI DE CE CLASSEMENT
TEST REPORTS & TEST RESULTS IN SUPPORT OF CLASSIFICATION

3.1. RAPPORTS D'ESSAI / TEST REPORTS

Nom du laboratoire <i>Laboratory name</i>	Nom du commanditaire <i>Sponsor name</i>	N° du rapport d'essai <i>Test report N°</i>	Méthode d'essai <i>Test method</i>
LNE	HARLEQUIN EUROPE 29 rue Notre Dame 2240 LUXEMBOURG LUXEMBOURG	P162155 - DE/17	NF EN ISO 11925-2
LNE	HARLEQUIN EUROPE 29 rue Notre Dame 2240 LUXEMBOURG LUXEMBOURG	P162155 - DE/18	NF EN ISO 9239-1

Suite du rapport page suivante
Test report following next page

3.2. RÉSULTATS D'ESSAI / TEST RESULTS

Méthode d'essai <i>Test method</i>	Produit (usine) <i>Product (factory)</i>	Nombre d'épreuves <i>Number of tests</i>	Paramètres <i>Parameters</i>	Résultats / <i>Results</i>	
				Paramètre continu Moyenne (m) <i>Continuous parameter Average (m)</i>	Paramètres conformité <i>Conformity parameters</i>
NF EN ISO 11925-2	HARLEQUIN LIBERTY	6	Temps d'exposition du brûleur 15 s <i>Flame application time 15 s</i> Fs <= 150 mm	-	Oui <i>Yes</i>
			Temps d'exposition du brûleur 30 s <i>Flame application time 30 s</i> Fs <= 150 mm	-	-
			Gouttelette/particules enflammées Inflammation du papier filtre <i>Flaming droplets Ignition of the filter paper</i>	-	-
NF EN ISO 9239-1	HARLEQUIN LIBERTY	3	Eclairement critique (kW/m²) <i>Critical flux (kW/m²)</i>	10.0	-
			Production de fumée (%.min) <i>Smoke production (%.min)</i>	5	-

(-) signifie / *means* : non applicable / *no applicable*

4. CLASSEMENT ET DOMAINE D'APPLICATION
CLASSIFICATION AND FIELD OF APPLICATION

4.1. REFERENCE DE CLASSEMENT / REFERENCE OF CLASSIFICATION

Le présent classement a été effectué conformément à l'EN 13501-1 + A1: 2013.
This classification has been carried out in accordance with EN 13501-1 + A1 : 2013.

4.2. CLASSEMENT / CLASSIFICATION

Le produit, HARLEQUIN LIBERTY, a été classé en fonction de son comportement au feu :
The product, HARLEQUIN LIBERTY, in relation to its reaction to fire behaviour is classified:

Bfl

Le classement supplémentaire en relation avec la production de fumée est :
The additional classification in relation to smoke production is:

s1

Le classement supplémentaire en relation avec les gouttelettes/particules enflammées est :
The additional classification in relation to flaming droplets particles is:

-

Le format du classement de réaction au feu pour les revêtements de sol est :
The format of the reaction to fire classification for floorings is:

Comportement au feu <i>Fire behaviour</i>	Production de fumées <i>Smoke production</i>
Bfl	s1

Classement de réaction au feu : <i>Reaction to fire Classification :</i>	Bfl-s1
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Pour déclarer le classement, il n'a pas été tenu explicitement compte de l'incertitude associée au résultat.
To state the classification, the uncertainty associated with the result has not been explicitly taken into account.

Suite du rapport page suivante
Test report following next page

4.3. DOMAINE D'APPLICATION / FIELD OF APPLICATION

Le présent classement est valable pour les paramètres suivants liés au produit :

This classification is valid for the following product parameters:

- le classement est valable pour les produits cités en § 2.2 ou formulés de manière strictement identique dans le site de production cité ;
- *the classification is valid for the products mentioned in § 2.2 or strictly stipulated in the quoted production site ;*
- couleurs diverses.
- *various colors.*

Le classement est valable pour les conditions d'utilisation finales suivantes :

The classification is valid for the following end use conditions:

- en pose libre ou adhésivée ;
- *in free or adhesive standing ;*
- sur substrats en bois et classés A1 et A2-s1,d0.
- *on substrates of wood and classed A1 and A2-s1,d0.*

Les résultats d'essai obtenus sur un substrat normalisé conforme à l'EN 13238 sont applicables si la masse volumique du substrat pour l'utilisation finale est supérieure ou égale à 75 % de la valeur nominale de la masse volumique du substrat normalisé.

- soit 1350 kg/m³ pour un support classé A1 et A2-s1,d0.
- soit 510 kg/m³ pour un support en bois

Test results using a standard substrate complying with EN 13238 are applicable if the density of the end use substrate is at least 75 % of the nominal value of the density of that standard substrate.

- *meaning 1350 kg/m³ for a classified substrate A1 and A2-s1,d0.*
- *meaning 510 kg/m³ for a substrate of wood.*

5. LIMITATIONS / LIMITATIONS

Le présent document de classement n'est pas une approbation, ni une certification de type produit.

This classification document does not represent type approval or certification of the product.

Trappes, le 15 décembre 2016

Trappes, the 2016/12/15

Le Responsable Technique

Test Officer



Harlequin Tape Gaffer Tape

Harlequin professional cloth gaffer dance floor tape, in a range of colours to match your Harlequin vinyl dance floor.

- Waterproof
- UV resistant
- Abrasion resistant
- Easy to tear and unwind, sharp cutting implements are not required.
- Solvent free adhesive, which contains natural rubber.
- RoHS Compliant

Can be colour-matched to special colour floors. Contact us for further information. Minimum order quantities apply.

Specification guide

Roll width	50mm
Roll length	50m
Colours available	Black, light grey, dark grey, white

Colours match:

Black – Harlequin Allegro, Harlequin Cascade, Harlequin Reversible, Harlequin Reversible Pro and Harlequin Studio.

Light Grey – Harlequin Cascade (582)

Dark Grey – Harlequin Dark Grey Cascade (406)

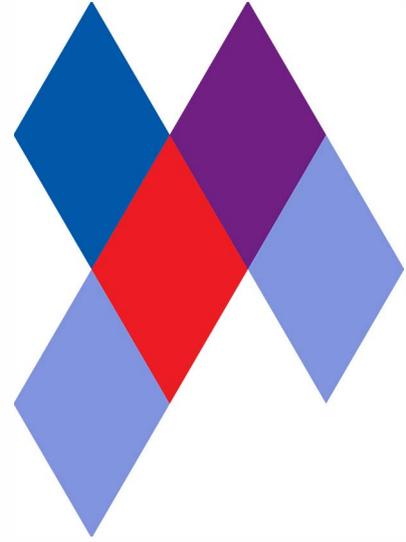
White- Harlequin Cascade, Harlequin Reversible and Harlequin Reversible Pro.



If you would like further information, advice and samples please contact us on +44 (0) 1892 514 888 or enquiries@harlequinfloors.com



HARLEQUIN
www.harlequinfloors.com



Guarantee

All Harlequin products are unconditionally guaranteed against manufacturing defects provided that claims are made within six months of the despatch or installation date. The Company's liability extends only to replacement of the product found to be defective and not to any incidental or consequential loss or damage.

In addition, we offer the following guarantees against manufacturing defects or failure:

Harlequin Hi-Shine and Harlequin Showfloor – 2 years

All other Harlequin floors installed by Harlequin – 10 years.

All other Harlequin floors not installed by Harlequin – 5 years

Ballet Barres and Brackets – 5 years

For printed vinyl floors the guarantee period will depend upon the floor selected and the intended use.

For wood top surfaces, both solid and engineered, the guarantee period will depend upon the product and finish chosen.

For any products installed by Harlequin that are not Harlequin products, the guarantee for that product falls to the manufacturer.

For bespoke stages and subfloors, the guarantee period will depend upon the materials used.

This guarantee is subject to the Harlequin product being installed, used, cleaned and maintained in accordance with Harlequin instructions.

Accidental damage is not covered by this guarantee.

This guarantee is subject to terms and conditions, which are available at www.harlequinfloors.com

If you require any further information, please contact Harlequin Floors on +352 46 44 22 or email info@harlequinfloors.com.



Transport cart for portable sprung floors panels

Harlequin Liberty™



Harlequin Liberty sprung floor panel transport carts are specially designed to fully protect the panels, edge trims and ramps during transport on tour.

Made out of tough, black, scratch-resistant, powder-coated steel, each cart is mounted on four swivel wheels with non-marking rims and fitted with brakes, making it easy to manoeuvre.

Each cart can transport up to 22 full-size panels which can be loaded and unloaded extremely quickly. The sides of the carts have slots for fork-lift trucks, making them easy to handle.



Unladen weight:	119 kg
Dimensions:	2,07 m (L) – 1,28 m (l) – 1,25 m (H)
Capacity:	22 full-size or 44 half-size panels
Wheels:	4 swivel-braked wheels
Wheel diameter:	150 mm

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Fax +352 46 44 40
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freephone

00 800 90 69 1000



Accessories Harlequin

Harlequin vinyl floor roll straps

Harlequin vinyl floor roll straps are manufactured from heavy duty black webbing, with a secure Velcro® fastening. They come in sizes A to G and are recommended for use when securing rolls of Harlequin vinyl floors that are rolled onto their cardboard cores and then moved or stored. We recommend to use 2 straps for rolls of 1.5m wide and 3 straps for rolls of 2m wide.

Straps Size	Vinyl Floor	Straps Size	Vinyl Floor
A	Duo™ / Duo Pro™ 10 m	D	Freestyle™ 15 m et 20 m Showfloor™ 25 m et 30 m Studio™ 20 m et 25 m
B	Cascade™ 10 m et 15 m Duo™ / Duo Pro™ 15 m, 20 m et 25 m Hi-Shine™ 20 m Showfloor™ 10 m, 15 m, et 20 m Studio™ 10 m	E	Allegro™ 10 m Freestyle™ 25 m Studio™ 30 m
C	Cascade™ 20 m et 25 m Duo™ / Duo Pro™ 30 m Hi-Shine™ 30 m Studio™ 15 m	F	Allegro™ 15 m Freestyle™ 30 m
		G	Allegro™ 20 m et 25 m

Harlequin vinyl floor storage bags

Ideal for touring, our vinyl floor storage bags are made from durable polyester fabric with waterproof backing and come complete with heavy duty nylon webbing cradle straps for portability. Recommended for the protection of Harlequin vinyl floors during transit, for ease of handling in touring situations or when storing your Harlequin vinyl floor. We offer two sizes of Harlequin vinyl floor storage bags: Short (for 1.5m wide rolls) Long (for 2m wide rolls)



Harlequin vinyl floor storage cart

The storage cart is recommended for use if you wish to store or move larger, heavier rolls of flooring. Features: 1.5m or 2m wide versions constructed from black scratch-resistant, powder-coated steel. Two handles are supplied with each cart to assist with loading and unloading and, when not in use, these locate on the end sections to help manoeuvre the cart itself.

The heavy gauge poles which support the rolls of flooring have special end fittings to locate them securely on the cart and a centre support to prevent bowing of the rolls. The carts are fitted with four heavy-duty swivel castors; with brakes and non-marking polyamide wheels.



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For vinyl floor rolls of 2m wide	Dimensions	Weight (empty)
For 4 rolls	2,23 (L) x 0,86 (l) x 1,02 (h) m	155kg
For 6 rolls	2,23 (L) x 1,10 (l) x 1,14 (h) m	182kg
For vinyl floor rolls of 1,5m wide		
For 4 rolls	1,73 (L) x 0,86 (l) x 1,02 (h) m	132kg
For 6 rolls	1,73 (L) x 1,10 (l) x 1,14 (h) ml	159kg

If you would like further information, advice and/or samples then please contact us on freephone

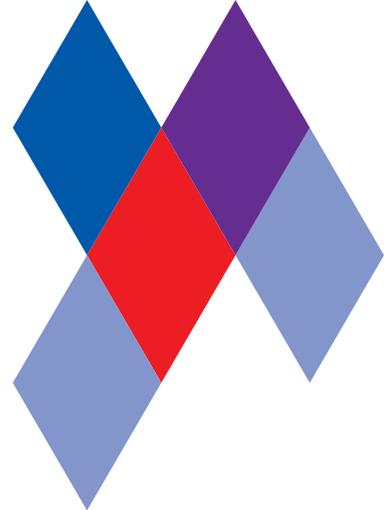
00 800 90 69 1000

Harlequin Liberty[®]

Harlequin Liberty is a sprung floor panel system, designed for permanent or portable installation. Panels are laid in a brickwork fashion onto the sub-floor, so that cross joins do not coincide. The panels join together by a rounded tongue and groove, which is secured in place using our 'one turn of the key' latch and lock mechanism.

Harlequin Liberty is finished by choosing an appropriate Harlequin vinyl performance floor from our range. For permanent and semi-permanent use, installation can be carried out either by the customer themselves or by our highly-skilled technical team.

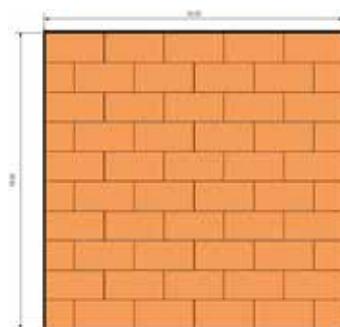
Harlequin Liberty sprung floor panels and the accompanying portable Harlequin vinyl performance floor can also be stored in carts, providing an easy and safe way for stage crew to move them on tour or around a venue.



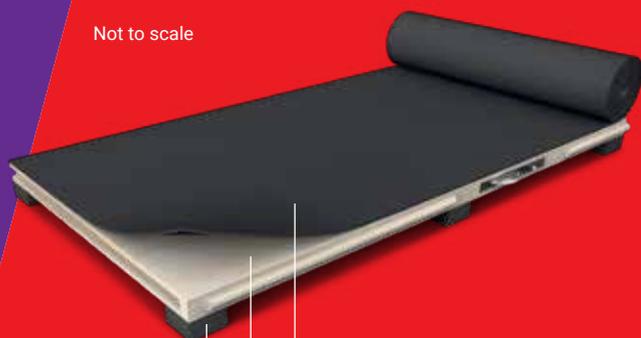
Specification guide

Permanent or Portable	Both
Floor panel sizes	1m x 1m & 2m x 1m
Minimum floor thickness (before inclusion of chosen finish)	37mm
Minimum floor weight (before inclusion of chosen finish)	12.5kg/m ²
Testing standards	BS EN 14904:2006
Average shock absorption	67%
Maximum point load (BS EN 1195)	1126kg
Area deflection	12.8%
Rolling load	>1500N
Vertical deformation	4.1mm

Diagram of 'brickwork fashion'



Not to scale



Selected Harlequin vinyl performance floor

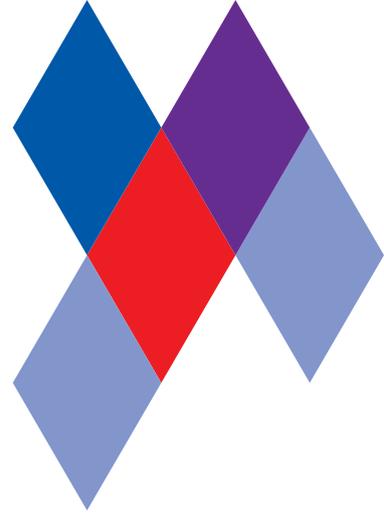
Clear layered birch plywood with a rounded tongue and groove, plus a latch and lock system

Dual density shock damping elastomer blocks at predetermined intervals



Harlequin's 'latch and lock' system

Harlequin Liberty Accessories



Harlequin Liberty is a modular panel-based sprung-floor system.

Harlequin Liberty panels feature dual density shock dampening elastomer pads, giving uniform and consistent shock dampening.

The panels join together quickly and simply using Harlequin's proprietary 'one turn of the key' latch and lock mechanism. They are easy to transport, store and install making Harlequin Liberty ideal for touring.

Edge trims and ramps are available for stage use and for gaps where the sprung floor does not extend to the walls of the studio and for door thresholds.

Ramps

- width 540mm
- length 1m & 2m

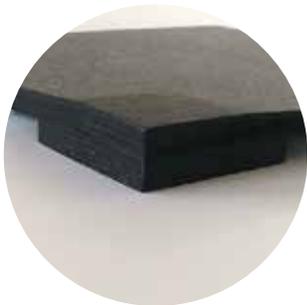


Mini ramps

- width 200mm
- length 1m & 2m



Corner pieces



Edge Trim

- width 65mm
- length 1m & 2m



Latches + receivers



Storage cart A-frame



If you would like further information, advice and samples please contact us on +44(0) 1892 514 888 or enquiries@harlequinfloors.com



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HARLEQUIN

PORTABLE AND PERMANENT
SPRUNG FLOOR SYSTEMS

THE WORLD DANCES ON HARLEQUIN FLOORS®



Mixed Sources
Product group from well-managed
forests and other controlled sources
Cert no. EUR-COC-051203
www.fsc.org
© 1996 Forest Stewardship Council

Environmental policy

Environmental responsibility has been a core value at Harlequin Floors for many decades. Environmentally compatible products and state-of-the-art processes ensure that each production stage minimises our environmental impact. We engage in responsible product sourcing that combines our customers' preference for quality with care for the environment; carefully selecting suppliers who reflect our environmental and social concerns. We constantly seek to improve the environmental performance of our processes from manufacture through installation and ongoing maintenance. Raw materials and energy are used efficiently, waste is recycled wherever possible and emissions are kept to an absolute minimum.

Timber certification and material sourcing

We only use FSC certified sources and documentation to support this is available on request.

PVC lifecycle and policy

PVC floor coverings can be fully recycled and are therefore often described as a sustainable product. Harlequin Floors recycles nearly 100% of its post manufacturing waste. We also buy in further recycled PVC material, thereby actively reducing the amount of used PVC sent to landfill. As part of our commitment to Product Stewardship, we will also recycle any Harlequin Floors vinyl product returned to our factories in Europe for recycling at the end of its life, thus minimising our and our customers' carbon footprints.

Harlequin quality

All **Harlequin** floors are guaranteed unconditionally against defects in manufacture, provided that claims are made within six months of the date of delivery or of installation.

The company only accepts liability for replacing a product deemed to be defective. Harlequin will not accept any liability whatsoever for accidental damage or deterioration linked to inappropriate or extreme use.

Harlequin dance vinyl and sprung floors are guaranteed for five years from the date of delivery or for ten years from the date of installation under normal use and provided that maintenance instructions have been followed.

Harlequin Showfloor™ and Hi-Shine™ floors are guaranteed for two years only from the date of delivery.





HARLEQUIN

Dear Friends of Harlequin,

Thank you for your interest in Harlequin sprung floor systems, which for over 40 years have been the choice of the world's artistic and technical directors and dance professionals.

Harlequin combines top quality products with unbeatable service - whether your requirement is for a dance company, conservatoire, local school, opera house, theatre, private dance school, television Studio, exhibition, fashion show or rock concert.

In this brochure you will find technical and practical information to help you select which of our three sprung floor systems, Harlequin Activity, Harlequin Liberty, Harlequin Flexity, is best suited to your requirements.

In addition to this brochure on Portable and Permanent Sprung Floors, we also have a separate brochure on Harlequin Vinyl Floors for Dance and Entertainment.

You can contact our business advisers on the free phone number 00 800 90 69 1000. They will be happy to answer all your questions.

Chantal Lagniau
General Manager, Harlequin Europe



I. Harlequin sprung floors Recommended vinyl floors for dance surface

Please also see our separate brochure on Harlequin vinyl floors.

	ALLEGRO™	CASCADE™	DUO™	DUO PRO™	FIESTA™	FREESTYLE™	HI-SHINE™	MARINE™	STANDFAST™	SHOWFLOOR™	STUDIO™	SOLID HARDWOOD	ENGINEERED BOARD
LIBERTY™ Permanent Version		✓		✓	✓	✓		✓	✓		✓		
LIBERTY™ Portable Version		✓	✓			✓	✓			✓	✓		
ACTIVITY™		✓			✓	✓		✓	✓		✓	✓	✓
FLEXITY™		✓	✓	✓	✓	✓		✓	✓		✓	✓	✓

✓ compatible

II. Harlequin vinyl floors Recommended for use by dance style

For more information please call us on freephone 00 800 90 69 1000. info@harlequinfloors.com

	Aérobic / Zumba	Classical	Ballroom dancing / Salsa	Concerts	Contemporary	Exhibitions	Hip-Hop / Jazz Street dance	Multi-purpose	Percussive dance (Flamenco, Tap)	Théâtre / Opéra	TV Studios	Fashion Shows
DUO™	✓✓	✓✓	✓	✓✓✓	✓✓	✓✓	✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓
DUO PRO™	✓✓	✓✓	✓	✓✓✓	✓✓	✓✓	✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓
STUDIO™	✓✓✓	✓✓✓			✓✓✓		✓✓					
CASCADE™	✓✓	✓✓✓	✓	✓✓✓	✓✓	✓✓	✓	✓✓	✓	✓✓✓	✓	✓
STANDFAST™	✓✓✓	✓✓	✓✓		✓✓✓		✓✓✓	✓✓✓	✓✓	✓✓✓		
ALLEGRO™	✓✓✓	✓✓			✓✓✓		✓✓					
FREESTYLE™	✓✓✓				✓✓✓		✓✓✓					
FIESTA™	✓✓✓		✓✓✓		✓		✓✓	✓	✓✓✓	✓✓✓		
HI-SHINE™	✓		✓	✓✓✓	✓✓	✓✓✓	✓		✓	✓✓✓	✓✓✓	✓✓✓
SHOWFLOOR™				✓✓✓		✓✓✓		✓✓		✓✓✓	✓✓✓	✓✓✓
MARINE™	✓	✓	✓✓	✓	✓		✓	✓✓	✓✓✓	✓✓✓		

✓ compatible ✓✓ appropriate ✓✓✓ ideal





Harlequin Liberty™

Sprung panel floor system for portable and temporary use, or for permanent installation

SPECIFICATION GUIDE

Minimum floor thickness
(before inclusion of chosen finish)
37 mm

Minimum floor weight
(before inclusion of chosen finish)
12,5 kg/m²

Maximum load resistance
Battens can be installed under the floor to obtain a load resistance of 1500 kg/m² when using retractable bleacher seating.
670 kg/m²

Maximum point load
In case of heavy rolling loads, use a 10mm plywood track.
366 kg/pressure point

Fire rating
Bfl-s1

Energy return
20,7%

Testing standards
DIN 18032-2

Shock absorption
(DIN standard minimum requirement is 53%)
67%

Vertical deformation
(DIN standard minimum requirement is 2.3mm)
4,1 mm

Surface deformation
(DIN standard maximum requirement is 15%)
12,8%

Resistance to rolling loads
(DIN standard minimum requirement is 1500N)
> 1500N

Installation time
120m²/hour with 2 flooring layers
(for portable version)

120m²/day with 2 flooring layers
(for permanent version)

Harlequin Liberty™ sprung floors are available in two versions: permanent and portable. They help to prevent injuries and offer dancers a safe and secure surface on which to work.

Harlequin Liberty™ permanent panels offer the unique benefit of quick installation, yet are easy to dismantle and re-install in another venue, or to a different configuration.

Harlequin Liberty™ portable panels are suitable for both touring dance companies and temporary use in entertainment venues where the stage floors are too harsh for dance and require a sprung floor solution.

The pivot joints and elastomer blocks ensure uniform performance across the entire floor surface, giving dancers the same 'feel' and energy return anywhere on the floor.

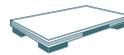
Available in two versions, as portable or permanent panels, Harlequin Liberty™ offers dancers the same level of comfort both in the practice studio and on stage.



PERMANENT



PORTABLE



1 x 1 m and 2 x 1 m

Selected Harlequin vinyl performance floor

Clear layered birch plywood with a rounded tongue and groove, plus a latch and lock system

Dual density shock dampening elastomer blocks at predetermined intervals



Accessories:



Ramps

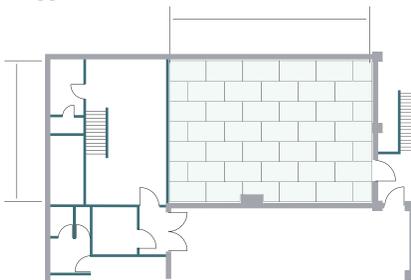
Edge trims



Harlequin Liberty™

Design and construction

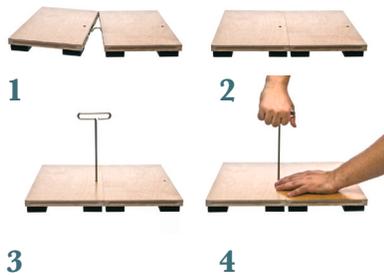
Configuration of the panels in staggered rows



Example of Harlequin Liberty configuration (can be adapted to suit requirements).

- Panels are made out of birch multi-ply.
- Each panel is fitted with dual density shock-damping elastomer blocks to ensure uniform, consistent shock absorption. Tested using the Shore Durometer Test, the dual density enables the blocks to compress gradually, providing exactly the same degree of shock absorption and energy return to one or more dancers on the same panel.
- The panels are laid in brickwork fashion (i.e. staggered rows) so that the joints don't coincide, and are linked to each other by tongue-and-groove joints.
- The tongues stop 20mm from the corners, making the floor more resistant to heavy loads.
- The edges of the panels are supported by elastomer blocks.

Assembly and fixation



Connect and secure your Harlequin Liberty panels with just one turn of a key.

1. The tongue-and-groove panels fit together easily
2. The latch system locks the panels securely together
3. Turning the locking key engages the latch.
4. One turn of the locking key is all it takes

NEW SYSTEM:
« Only one key turn »
 Easy-to-fit





Harlequin Liberty™

Transport cart

SPECIFICATION GUIDE

Unladen weight
119 kg

Dimensions
2,07 m (L) – 1,28 m (l) – 1,25 m (H)

Capacity
22 full-size or 44 half-size panels

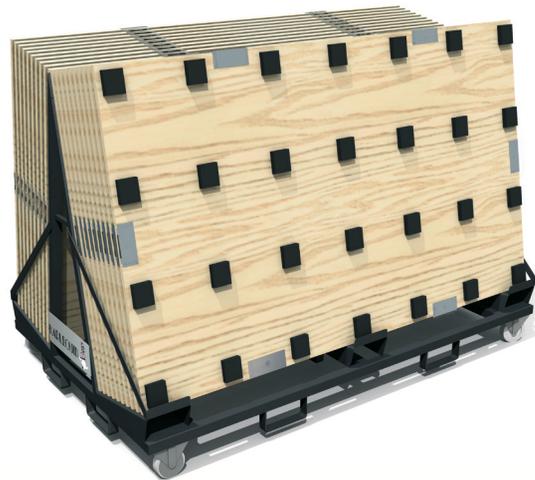
Wheels
4 swivel-braked wheels

Wheel diameter
150 mm

Harlequin Liberty sprung floor panel transport carts are specially designed to fully protect the panels, edge trims and ramps during transport on tour.

Made out of tough, black, scratch-resistant, powder-coated steel, each cart is mounted on four swivel wheels with non-marking rims and fitted with brakes, making it easy to manoeuvre.

Each cart can transport up to 22 full-size panels which can be loaded and unloaded extremely quickly. The sides of the carts have slots for fork-lift trucks, making them easy to handle.





Harlequin Activity™

*A fully floating sprung floor
for permanent installation*

SPECIFICATION GUIDE

Minimum floor thickness

For vinyl surface: 46 mm
(without vinyl surface)

For hardwood surface: 51 mm
(with hardwood surface)

Minimum floor weight

For vinyl surface: 17,9 kg/m²
(without vinyl surface)

For hardwood surface: 19 kg/m²
(with hardwood surface)

Maximum load resistance

Battens can be installed under the floor to obtain a load resistance of 1500 kg/m² when using retractable bleacher seating 549 kg/m²

Maximum point load

In case of heavy rolling loads, use a 10mm plywood track.
366 kg/pressure point

Testing standards

DIN 18032-2

Shock absorption

(DIN standard minimum requirement is 53%)
59,6%

Vertical deformation

(DIN standard minimum requirement is 2.3mm)
3,8 mm

Surface deformation

(DIN standard maximum requirement is 15%)
7,2%

Resistance to rolling loads

(DIN standard minimum requirement is 1500N)
> 1500N

Harlequin Activity™ is a permanently installed sprung floor system based on the now well-established 'triple sandwich' construction originated by Harlequin over 30 years ago. The fully floating construction is not fixed to the floor or walls, thus minimising noise transmission.

Harlequin Activity™ is shock-damped to avoid a 'trampoline' effect and provides area and point elasticity to offer identical characteristics across the whole floor. It is an 'industry standard' choice with many hundreds of installations worldwide, effectively reducing injuries to both teachers and performers..

Harlequin Activity™ has been tested for noise reduction with a variety of Harlequin dance surfaces in accordance with standard BS EN ISO 140-8:1998. The results showed that Harlequin Activity achieves significant impact sound reduction.

You can chose the **Harlequin Activity™** sprung floors with different surface options : Solid hardwood (beech, oak or maple) or with a Harlequin vinyl floor.



PERMANENT

Harlequin vinyl dance floor

Dual layer semi-flexible suspension panels

Cellular polyurethane

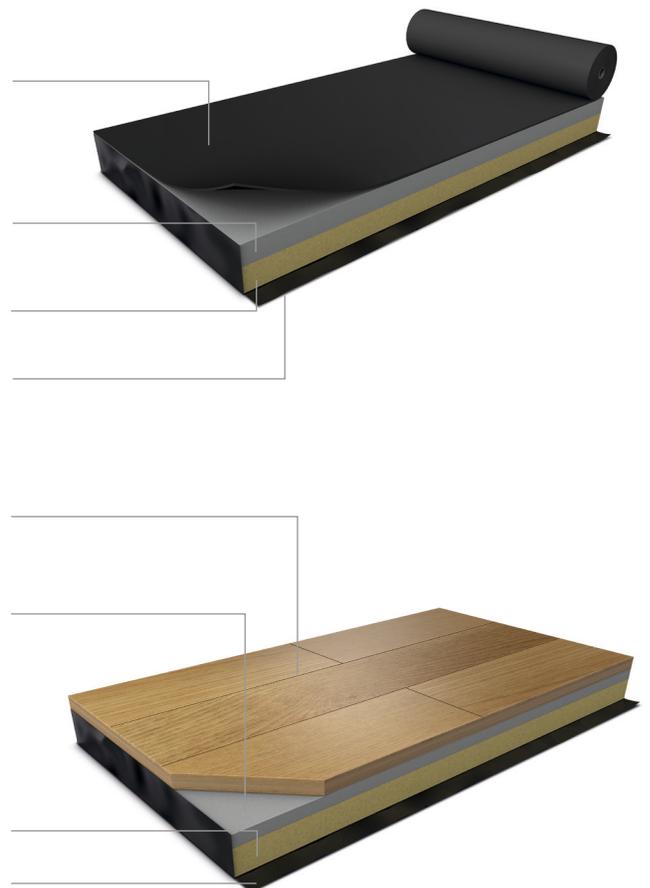
Damp-proof membrane

Solid hardwood OR engineered board with a hardwood wear layer - both are available in beech, oak or maple

Single layer semi-flexible suspension panel

Cellular polyurethane (25mm)

Damp-proof membrane





Harlequin Activity™

Design and construction

The following layers are applied to a smooth, dry concrete sub-floor:

- Polymer damp-proof membrane.
- Cellular polyurethane 25mm thick and tested for resilience by Harlequin.
- Layer of semi-flexible panels 12mm thick.
- Second layer of semi-flexible panels 9mm thick installed at right angles and in staggered rows.
- Polyethylene film enveloping the entire structure on panels edges.
- Performance surface 2 or 3mm thick and weighing between 2.3 and 2.6kg/m², adhered and welded to the surface .
- Maximum overall height is 49mm, including the performance surface.

Installing a Harlequin Activity floor



2

3

4

1. Cellular polyurethane
2. First layer of semi-flexible panels
3. Second layer of semi-flexible panels laid at right angles to the first layer in staggered rows
4. Harlequin performance surface



Harlequin Flexity™

*Sprung floor for permanent installation
to lay by yourself*

SPECIFICATION GUIDE

Thickness of the sprung floor

37 mm (before inclusion of chosen finish)

Weight of the sprung floor

10 kg/m² (without vinyl floor)

Average shock absorption

(DIN standard minimum requirement is 53%)
59,1%

Maximum load resistance

600 kg/m²

Maximum point load

366 kg/pressure point

Fire rating

vinyl floor finishing : Bfl-s1
engineered board finishing : Dfl-S1

In accordance with standard

BS EN 14904:2006

Plywood density

between 650 and 750 kg/m³

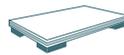
The **Harlequin Flexity™** sprung dance floor is a cost-effective, self-install sprung floor panel system, designed for permanent installation. Panels are laid in a brickwork fashion onto the sub-floor, so that cross joints do not coincide. The panels join together by a special tongue and groove, which are glued during installation. A semi-permanent version is available, to special order, where the panels are held together with plastic straps.

Harlequin Flexity™ can be installed by anyone with basic DIY skills and full instructions are provided. It's a cost-effective choice, helping to reduce the injury risks associated with dancing or performing on a hard, unsprung floor.

Harlequin Flexity™ is finished by choosing an appropriate Harlequin vinyl performance floor from our range.



PERMANENT

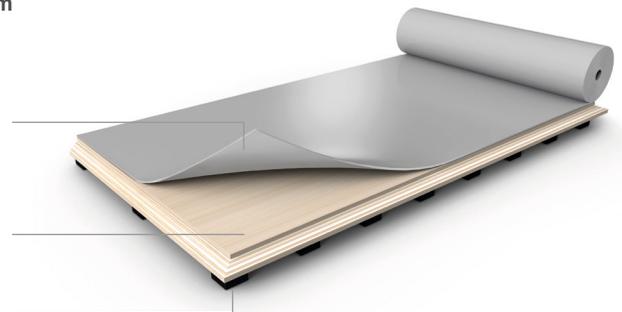


1.2 m x 2.4 m

*Harlequin vinyl
performance floor*

*Birch plywood with special
tongue and groove system*

*Double density shock
damping elastomer blocks*



HARLEQUIN
The world dances on Harlequin floors®



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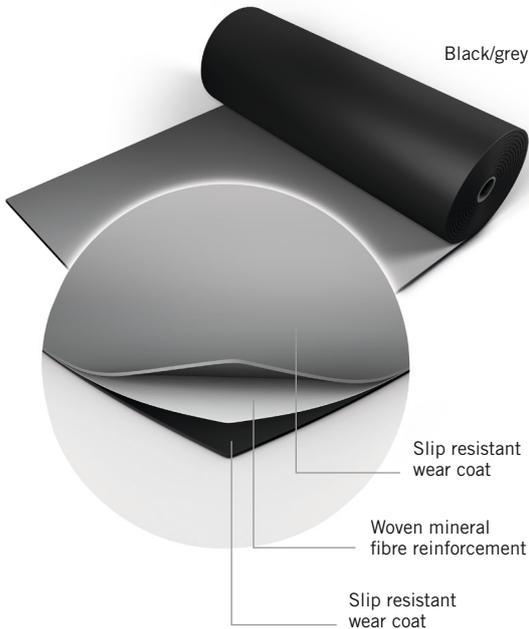
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Harlequin Duo Pro™

Established over four decades ago, Harlequin Duo is the original double-sided dance and stage floor. It's a hardwearing yet lightweight calendared vinyl that is slip-resistant on both sides, thus providing two floors in one! Special wear coats make it easy to maintain and it rolls out quickly.

Harlequin Duo Pro has the same features as Harlequin Duo but with the addition of a new mineral fibre interply layer, it is now even more dimensionally stable and therefore relaxes and lays flat even quicker.

Ideally laid onto any hard, smooth surface, **Harlequin Duo Pro** is suited to touring due to ease of handling and portability and is suitable for a wide variety of uses including ballet, contemporary, percussive dance including flamenco, Irish and tap, multi-purpose use, hip-hop, jazz, street, aerobics, zumba, concerts, display, exhibitions, television, theatres and for operatic performances.

Specification guide

Permanent or Portable	Portable
Roll width	2 m
Roll length	10 m, 15 m, 20 m, 25 m and 30 m
Colours	Black/white, black/grey
Thickness	> 1,5 mm
Weight	2,25 kg/ m ²
Fire rating	Bfl-s1 (EN 13501-1)

Harlequin's vinyl floor application guide

In addition to Harlequin Duo Pro, we also produce a wide range of other vinyl floors, which are listed below.

✓ = We recommend.

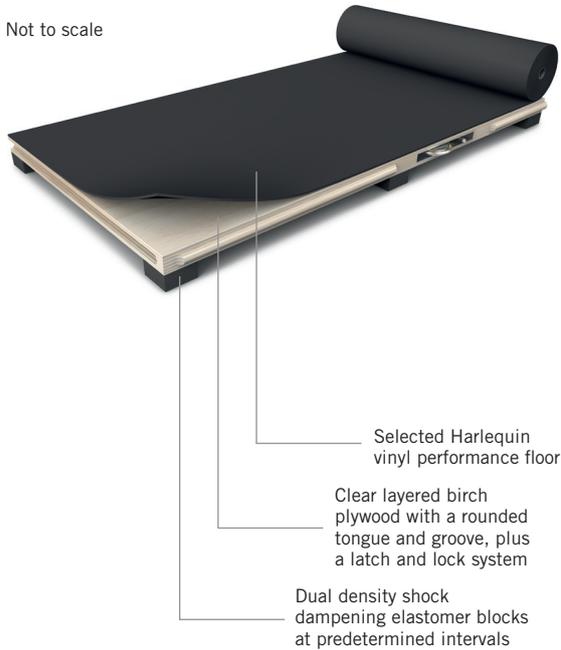
	Aerobics/Zumba	Ballet	Ballroom/Salsa	Concerts	Contemporary	Display/Exhibition	Hip-Hop/Jazz/Street	Modern	Multi-purpose	Percussive* (Flamenco, Irish, Tap)	Theatre/Opera	TV
Allegro	✓				✓		✓	✓				
Cascade	✓	✓		✓	✓		✓	✓	✓	✓	✓	
Duo	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
Duo Pro	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
Fiesta	✓		✓				✓		✓	✓	✓	
Free Style	✓				✓		✓	✓				
Hi-Shine				✓		✓					✓	✓
Marine				✓					✓	✓	✓	✓
Showfloor				✓		✓						✓
Standfast	✓	✓			✓		✓	✓	✓	✓	✓	✓
Studio	✓	✓			✓		✓	✓				

**If you would like further information,
advice and/or samples then please contact us.**

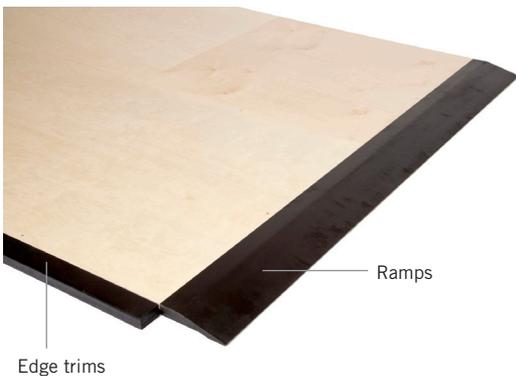
00 800 90 69 1000

Harlequin Liberty

Not to scale



Accessories



Harlequin Europe SA
29 rue Notre-Dame
L-2240 Luxembourg

Tel: +352 46 44 22
Fax: +352 46 44 40
Freephone: 00 800 90 69 1000

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info@harlequinfloors.com

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Harlequin Liberty™

Sprung panel floor system for portable and temporary use, or for permanent installation

Harlequin Liberty sprung floors are available in two versions: permanent and portable. They help to prevent injuries and offer dancers a safe and secure surface on which to work.

Panels are laid in a brickwork fashion onto the sub-floor, so that cross joins do not coincide. The panels join together by a rounded tongue and groove, which is secured in place using our 'one turn of the key' latch and lock mechanism.

Harlequin Liberty permanent panels offer the unique benefit of quick installation, yet are easy to dismantle and re-install in another venue, or to a different configuration.

Harlequin Liberty portable panels are suitable for both touring dance companies and temporary use in entertainment venues where the stage floors are too harsh for dance and require a sprung floor solution.

Harlequin Liberty is finished by choosing an appropriate Harlequin vinyl performance floor from our range. For permanent and semi-permanent use, installation can be carried out either by the customer themselves or by our highly-skilled technical team.

Harlequin Liberty sprung floor panels and the accompanying portable Harlequin vinyl performance floor can also be stored in carts, providing an easy and safe way for stage crew to move them on tour or around a venue.

Specification guide

Permanent or Portable	Both
Floor panel sizes	1m x 1m & 2m x 1m
Minimum floor thickness (before inclusion of chosen finish)	37mm
Minimum floor weight (before inclusion of chosen finish)	12.5kg/m ²
Maximum load resistance Battens can be installed under the floor to obtain a load resistance of 1500 kg/m ² when using retractable bleacher seating.	670kg/m ²
Maximum point load In case of heavy rolling loads, use a 10mm plywood track.	366kg/point
Fire certificate	Bfl-s1
Energy return	20,7%
Testing standards	DIN 18032-2
Shock absorption (DIN standard minimum requirement is 53%)	67%
Vertical deformation (DIN standard minimum requirement is 2,3mm)	4,1mm
Surface deformation (DIN standard maximum requirement is 15%)	12,8%
Resistance to rolling loads (DIN standard minimum requirement is 1500N)	> 1500N
Installation time (permanent installation)	120m ² /day with 2 flooring layers

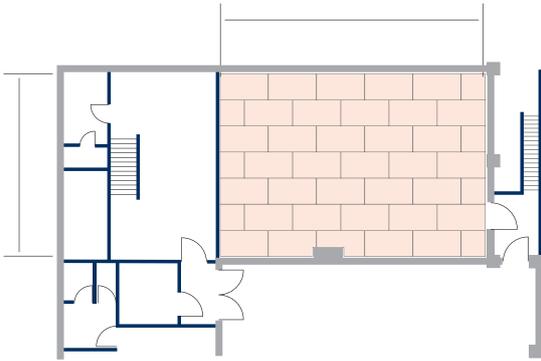
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contact us on freephone

00 800 90 69 1000

Harlequin Liberty™

Sprung panel floor system for portable and temporary use, or for permanent installation

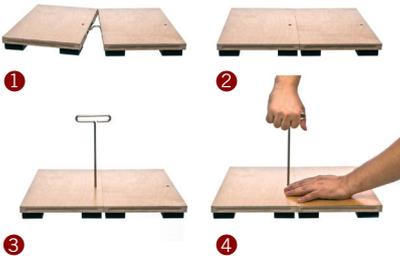
Configuration of the panels in staggered rows



Example of Harlequin Liberty configuration (can be adapted to suit requirements).

Design and construction

- Panels are made out of birch multi-ply.
- Each panel is fitted with dual density shock-damping elastomer blocks to ensure uniform, consistent shock absorption. Tested using the Shore Durometer Test, the dual density enables the blocks to compress gradually, providing exactly the same degree of shock absorption and energy return to one or more dancers on the same panel.
- The panels are laid in brickwork fashion (i.e. staggered rows) so that the joints don't coincide, and are linked to each other by tongue-and-groove joints.
- The tongues stop 20mm from the corners, making the floor more resistant to heavy loads.
- The edges of the panels are supported by elastomer blocks..



Connect and secure your Harlequin Liberty panels with just one turn of a key.

- 1 The tongue-and-groove panels fit together easily.
- 2 The latch system locks the panels securely together.
- 3 Turning the locking key engages the latch.
- 4 One turn of the locking key is all it takes.

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Harlequin's sprung floor application guide

In addition to Harlequin Liberty, we also produce a small range of other sprung floors, which are listed below

✓ = We recommend

	Allegro	Cascade	Fiesta	FreeStyle	Hi-Shine	Marine	Reversible	Reversible Pro	Showfloor	Standfast	Studio	Solid hardwood	Engineered board
Activity		✓	✓	✓		✓				✓	✓	✓	✓
Actitherm		✓	✓	✓		✓				✓	✓	✓	✓
Liberty / Liberty HD (permanent)		✓	✓	✓						✓	✓		
Liberty / Liberty HD (portable)		✓			✓		✓	✓	✓		✓		
Flexity Plus		✓	✓	✓			✓	✓		✓	✓		✓

If you would like more information, advice or samples, contact us on freephone

00 800 90 69 1000

Harlequin Liberty™

Sprung panel floor system for portable and temporary use, or for permanent installation



Harlequin Liberty transport cart

Harlequin Liberty sprung floor panel transport carts are specially designed to fully protect the panels, edge trims and ramps during transport on tour.

Made out of tough, black, scratch-resistant, powder-coated steel, each cart is mounted on four swivel wheels with non-marking rims and fitted with brakes, making it easy to manoeuvre.

Each cart can transport up to 22 full-size panels which can be loaded and unloaded extremely quickly. The sides of the carts have slots for fork-lift trucks, making them easy to handle.



Unladen weight:	119 kg
Dimensions:	2,07 m (l) – 1,28 m (w) – 1,25 m (h)
Capacity:	22 full-size or 44 half-size panels
Wheels:	4 swivel-braked wheels
Wheel diameter:	150 mm

Harlequin Europe SA
29 rue Notre-Dame
L-2240 Luxembourg

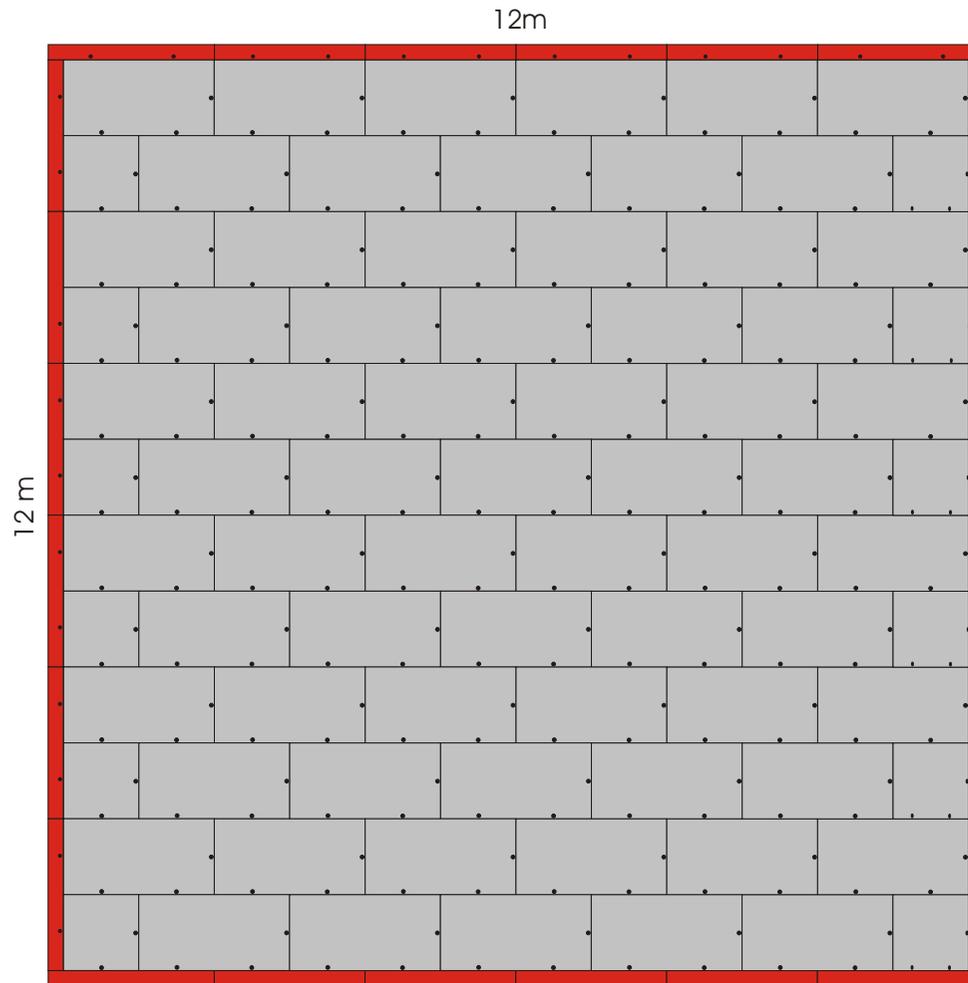
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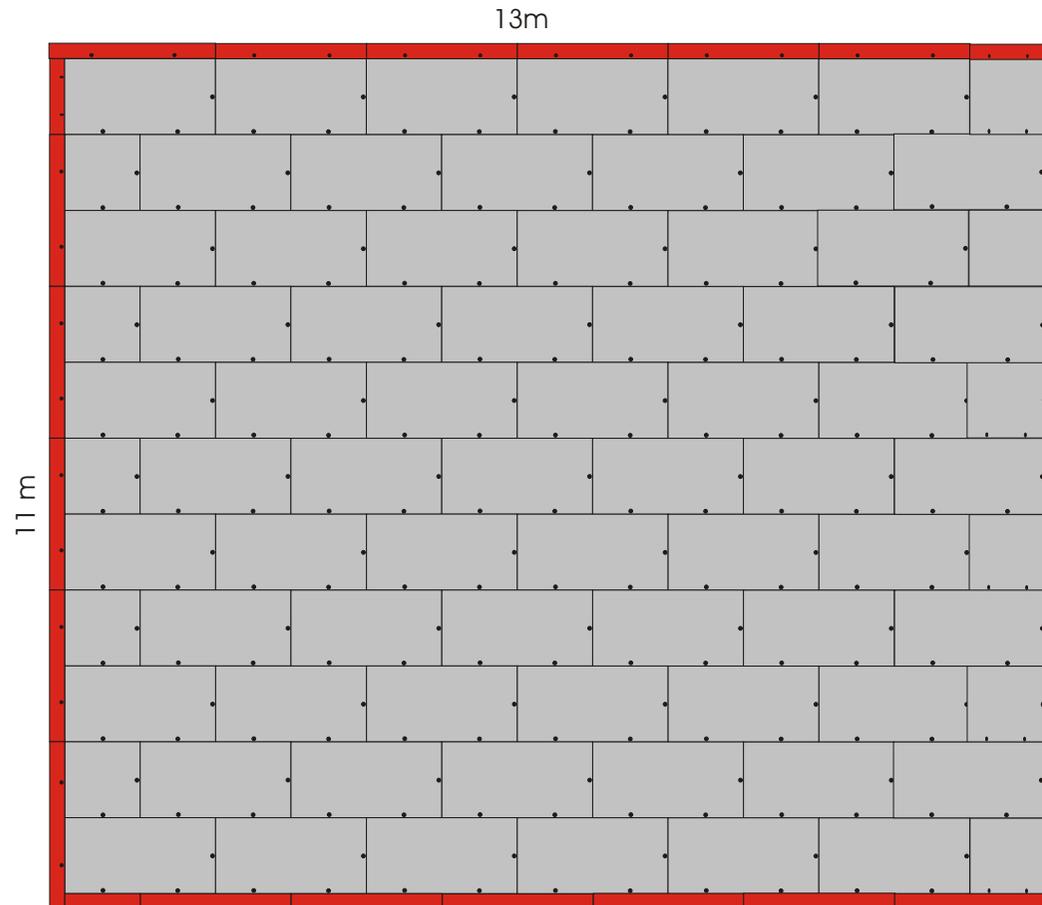
Components :

66 Full panels
2000 x 1000mm

12 Half panels
1000 x 1000mm

20 Mini Ramps
2000 x 200 mm

4 Mini Ramps Extra Long
1000x220 mm



Components :

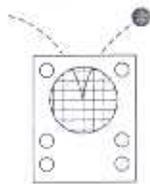
66 Full panels
2000 x 1000mm

11 Half panels
1000 x 1000mm

18 Mini Ramps
2000 x 200 mm

4 Mini Ramps
1000 x 200 mm

4 Mini Ramps Extra Long
2200x200 mm



CST

Centre for Sports Technology Ltd

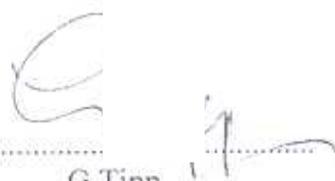
Technical Report Z-0606/5A

LIBERTY PANELS

Dynamic tests on a dance floor

Summary: Tests of shock absorption, vertical deformation, area deflection and behaviour under rolling load, described under DIN 18032 have been carried out on a dance floor. This report provides the results of the tests and compares them with published criteria.

Reported by:


.....
G Tipp
Director


.....
D. Frank
Projects Coordinator

DATE OF THIS REPORT : 27th March 2006

*Unit 3 : Greenwich Centre Business Park
53 Norman Road
LONDON SE10 9QF*

*Tel : 0208 293 6655
Fax : 0208 269 0440
E-mail : info@cst-global.com*



Tests marked thus * do not come within the scope of CST's accreditation under UKAS

1 Introduction

- 1.1 At the request of Ray Marsh of British Harlequin plc, tests have been carried out on a British Harlequin dance floor system.
- 1.2 This reports details the results obtained for the product *LIBERTY PANELS* dance floor system.
- 1.3 The tests carried out on the floor are described fully in DIN 18032 Part 2, the German Standard for floors for sports halls.
- 1.4 This report gives an outline description of the test methods, provides the results of the tests and compares them with the parameters described in DIN 18032 Part 2.
- 1.5 This report replaces Z-0606/5 of the same date due to an error in the 'Test Position and Directions' drawing in the appendix.

2 Sample

- 2.1 The product is designed as an area elastic floor intended for indoor use only.
- 2.2 The sample was prepared by:

British Harlequin plc.
Festival House
Chapman Way
Tunbridge Wells
Kent
TN 2 3EF

- 2.3 The sample was constructed by the client at their warehouse in Tunbridge Wells. Testing was carried out by Messers Frank Kipping and Salachna on 15th, 16th and 20th March 2006. The ambient temperature during the test was 22C.
- 2.4 The sample was constructed from 18 mm thick, tongue and groove Birch Ply sheets. The size of the panels were 2412 x 1206mm and they were supported on 45 no. 50 x 50mm, 19mm thick dual density poly-urethane pads. The overall size of the sample was 3.5 x 3.5 m.
- 2.5 The test results obtained relate only to the sample provided.

3. Test Procedures

The tests applied to the floor are described fully in DIN 18032 Part 2, the German Standard for floors for sports halls. Outline descriptions are given here.

3.1 Force Reduction

The 'Force Reduction' test measures the degree by which the floor reduces the impact force, which occurs when an athlete, or dancer, lands on it.



The test was devised to simulate the forces observed when a runner's heel strikes the ground. The apparatus consists of a 20 kg mass, which is allowed to fall onto a stiff spring resting on the floor. The force, which results from the impact depends on the relative stiffness of the floor to that of the spring. The test is carried out on a concrete floor as well as on the floor under test and the result quoted is the amount by which the force measured on the test floor is lower than the force measured on concrete.

3.2 Vertical Deflection*

In the 'Vertical Deflection' test, the amount by which the floor deflects under impact load is measured directly.

The test is similar in principle to the force reduction test. However, a softer spring is used and the drop height is adjusted so that the peak force produced falls within a certain range.

3.3 Area Deflection*

Area Deflection is measured using a modification of the vertical deflection apparatus. Instead of measuring the deflection at the point at which the test force is applied, it is measured 500 mm away. The purpose of the test is to ensure that one athlete or dancer standing on the floor will not be excessively disturbed by the movements of another nearby.

3.4 Resistance to a Rolling Load*

The Rolling Load resistance test is carried out on the complete floor. A steel wheel whose width, diameter and corner radii are defined, is loaded to 1500 N and is rolled repeatedly over the surface. After 300 passes, the floor is examined for damage.

4. Test Positions

- 4.1 Tests were carried out at the positions marked forming Page 8 of this report.
- 4.2 The force reduction and vertical deformation tests were carried out at positions A to E.
- 4.3 Area deflection tests were carried out at each of Positions A to E. In each case, the point marked A, B etc. is the point at which the test force was applied. Deflection was measured at a point 500 mm away, in one or more of the directions shown on the diagram.
- 4.3 The Behaviour under a Rolling Load was tested at two positions on the sample.

5 Results

The results obtained are tabulated on the following page.

Figures given under 'DIN 18032' are the specification limits given in that standard.

Test	Units	Accuracy	Result	Requirement
Shock absorption				
- Position A	%	±1	67	≥53
- Position B	%	±1	66	≥53
- Position C	%	±1	67	≥53
- Position D	%	±1	68	≥53
- Position E	%	±1	67	≥53
Vertical deflection				
- Position A	mm	±0.1	4.1	≥2.3
- Position B	mm	±0.1	4.0	≥2.3
- Position C	mm	±0.1	4.2	≥2.3
- Position D	mm	±0.1	3.8	≥2.3
- Position E	mm	±0.1	4.5	≥2.3
Area deflection				
- Position A				
Direction B	%	±0.1	12.2	<20
Direction D	%	±0.1	7.3	<20
- Position B				
Direction B	%	±0.1	15.0	<20
Direction D	%	±0.1	17.5	<20
- Position C				
Direction B	%	±0.1	11.9	<20
Direction D	%	±0.1	2.4	<20
- Position D				
Direction B	%	±0.1	18.4	<20
Direction D	%	±0.1	18.4	<20
- Position E				
Direction B	%	±0.1	11.1	<20
Direction D	%	±0.1	13.3	<20
Average	%	±0.1	12.8	<15



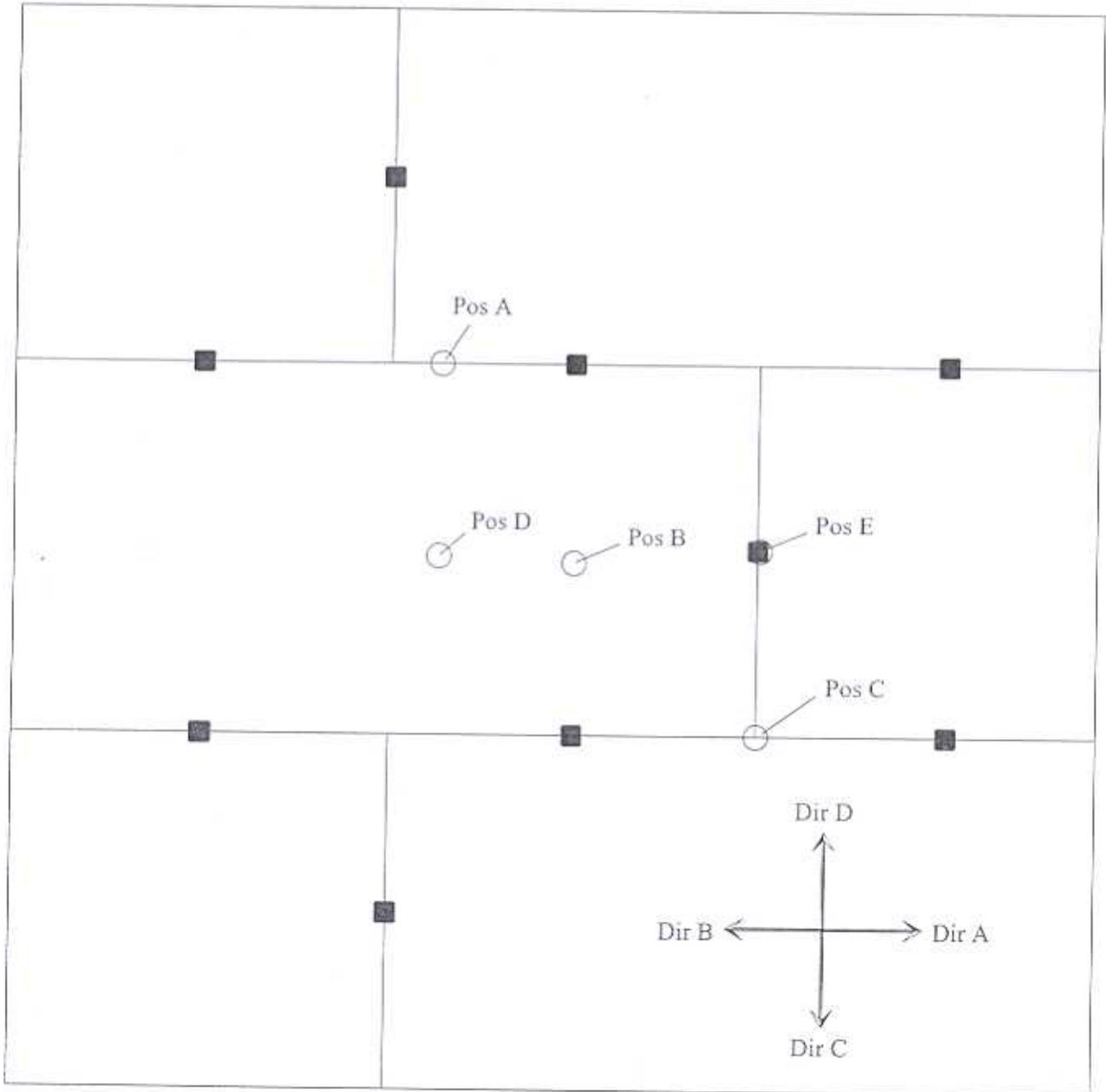
6. Discussion

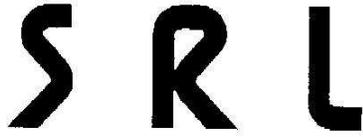
- 6.1 The results for Force Reduction, Vertical Deflection and Area Deflection comply with the requirements of DIN 18032.
- 6.2 No damage was found when the floor was examined following the Rolling Load test.

END OF TEXT



Test Positions and Directions





INVESTOR IN PEOPLE

Technical Report

Report Number C/07/5L/3808/1a
(Supersedes report C/07/5L/3808/1 dated 24/07/07)

Date 6 August 2007

Project

**The Laboratory Determination of
The Impact Generated Radiated
Sound Power Levels
of Various Dance Floors**

Prepared for

**British Harlequin Plc
Festival House
Chapman Way
Tonbridge Wells
Kent TN2 3EF**

By

Allen Smalls

Sound Research Laboratories Limited
Consultants in Noise & Vibration
Head Office & Laboratory: Holbrook House, Little Waldingfield
Sudbury, Suffolk CO10 0TH
Telephone (01787) 247595 Fax (01787) 248420
e-mail: srl@soundresearch.co.uk

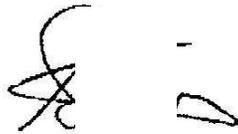
*This report shall not be reproduced, except in full,
without written approval of the laboratory*

1.0 Summary

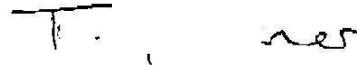
Tests have been done in SRL's Laboratory at Holbrook House, Sudbury, Suffolk, to determine the impact generated sound power level of various floating dance floors.

From these measurements the required results have been derived and are presented in tabular form in Tables 1 to 4.

The results are given in 1/3rd octave bands over the frequency range 50Hz to 10Hz



.....
Allen Smalls
Laboratory Manager
Quality Manager



.....
Tom Gardner
Head of Testing

For and on behalf of
Sound Research Laboratories Ltd

Contents

- 1.0 Summary
- 2.0 Details of Measurements
- 3.0 Description of Test
- 4.0 Results

Tables 1 to 4

Appendix 1: Test Procedure

2.0 Details of Measurements

2.1 Location

Sound Research Laboratories Ltd
 Holbrook House
 Little Waldingfield
 Sudbury
 Suffolk
 CO10 0TH

2.2 Test Date

18 June 2007

2.3 Instrumentation and Apparatus Used

Make	Description	Type
E D I	Microphone Multiplexer Microphone Power Supply Unit	
Norwegian Electronics	Tapping Machine Real Time Analyser Rotating Microphone Boom	211 830 231
Brüel & Kjaer	12mm Condenser Microphones Windshields Pre Amplifiers Microphone Calibrator Omnipower Sound Source	4166 UA0237 2639, 2669C 4231 4296
Larson Davis	12mm Condenser Microphone	2580
SRL	Power Amplifiers	
Celestion	Loudspeakers	100w

Thermo Hygro	Temperature & Humidity Probe	
TOA	Graphic Equalizer	E-1231
	Power Amplifier	DPA-800

2.4 References

BS 4196:Part 1:1991 ISO 3741	Precision methods for determination of sound power levels for broad-band sources in reverberation rooms
---------------------------------	---

2.5 Personnel Present

Ray Marsh	British Harlequin Plc
Guy Daggar	British Harlequin Plc

3.0 Description of Test

3.1 Description of Sample

Three Base Floors were tested with various coverings.

First Base Floor was Harlequin Woodspring Basketweave.

Basefloor 1: Harlequin Woodspring Basketweave.

Floor size: 3.618m x 3.618m

Basefloor 1 was tested with the following coverings:-

Test No. 2	No coverings
Test No. 3	4.0mm CDM17
Test No. 4	4.0mm CDM17 plus Cascade
Test No. 5	4.0mm CDM17 plus Studio
Test No. 6	4.0mm CDM17 plus Standfast
Test No. 7	Standfast - direct on wood
Test No. 8	Cascade - direct on wood
Test No. 9	Studio - direct on wood

Basefloor 2: Harlequin Liberty

Floor size: 3.618m x 3.618m

Basefloor 2 was tested with the following coverings:-

Test No. 10	4.0mm CDM17 plus Standfast
Test No. 11	4.0mm CDM17 plus Studio
Test No. 12	4.0mm CDM17 plus Cascade
Test No. 13	4.0mm CDM17
Test No. 14	Cascade
Test No. 15	Studio
Test No. 16	Standfast
Test No. 17	No coverings

Basefloor 3: American Longlac Liberty floor

Floor size: 3.618m x 3.618m.

Basefloor 3 was tested with the following coverings

Test No 18 No coverings

Test No 19 4.0mm CDM17

Sampling plan: All new materials supplied and used.

Sample condition: New.

Details supplied by: British Harlequin Plc.

Sample installed by: British Harlequin Plc.

3.2 Sample Delivery date

18 June 2007

3.3 Test Procedures

A standard tapping machine as defined in BS EN ISO 140-8:1998 was used as the impact noise source. The tapping machine was positioned in four locations - one at each corner of the sample. The tapping machine was enclosed to minimise the mechanical noise of the tapping machine and the direct impact noise. The sound power level generated was derived following the procedure in Appendix 1.

4.0 Results

The results of the measurements and subsequent analysis are summarised below.

Results relate only to the items tested.

SRL Test No.	Description In Brief	Lw(A)
2	Base Floor 1	95.1
3	Basefloor 1 plus approx 4.0mm CDM17	88.2
4	Basefloor 1 plus CDM 17 plus Cascade	87.0
5	Basefloor 1 plus CDM17 plus Studio	86.5
6	Basefloor 1 plus CDM 17 plus Standfast	86.3
7	Basefloor 1 plus Standfast - direct on wood	91.9
8	Basefloor 1 plus Cascade - direct on wood	92.8
9	Basefloor 1 plus Studio - direct on wood	91.6
10	Basefloor 2 plus CDM 17 plus Standfast	91.9
11	Basefloor 2 plus CDM 17 plus Studio	92.5
12	Basefloor 2 plus CDM 17 plus Cascade	92.2
13	Basefloor 2 plus CDM 17	94.6
14	Basefloor 2 plus Cascade direct on wood	99.8
15	Basefloor 2 plus plus Studio direct on wood	98.8
16	Basefloor 2 plus Standfast direct on wood	99.2
17	Basefloor 2 only	104.2
18	Basefloor 3 only	103.8
19	Basefloor 3 plus 1 square cork	97.9

————— *End of Text* —————

Table 1 : Sound Power Levels, dB

Test No. f, Hz	2		3		4		5	
50	73.6		75.0		77.2		76.3	
63	76.5	84.9	80.8	85.8	81.3	88	80.8	85.4
80	83.8		83.6		83.2		82.6	
100	86.5		85.7		84.6		85.0	
125	89.8	92.9	86.7	90.3	84.5	88.9	85.0	89.4
160	87.5		83.5		83.3		83.6	
200	89.2		85.6		85.4		85.4	
250	89.8	94.1	86.5	90.6	85.6	90	85.6	89.7
315	89.0		85.3		84.6		83.6	
400	88.2		85.1		84.1		83.5	
500	87.6	92.6	84.0	88.7	83.1	87.6	82.5	87.1
630	87.5		82.3		80.7		80.4	
800	86.4		79.2		76.6		76.1	
1000	85.6	90.5	75.6	81.2	72.6	78.4	71.3	77.7
1250	85.1		71.1		67.6		66.3	
1600	84.6		66.9		64.0		62.9	
2000	83.0	87.7	65.4	69.7	64.0	67.6	63.3	66.8
2500	79.7		59.9		58.8		58.2	
3150	74.9		59.1		59.0		58.5	
4000	69.9	76.4	61.2	64.4	61.3	64.4	60.7	63.9
5000	64.3		57.8		57.9		57.2	
6300	60.1		57.3		57.4		56.7	
8000	58.0	62.9	56.8	60.9	57.0	61.1	56.4	60.5
10000	54.7		53.5		53.9		53.2	

Table 2 : Sound Power Levels, dB

Test No. f, Hz	6		7		8		9		10	
50	75.8		73.5		73.9		77.6		73.4	
63	82.0	86.7	81.3	85.8	80.9	86.2	82.2	86.9	80.9	85.6
80	84.4		83.4		84.2		84.3		83.5	
100	84.1		84.6		85.2		85.5		89.1	
125	85.1	89	85.3	89.8	85.5	90.2	86.8	90.5	92.7	98.8
160	83.5		85.2		85.7		84.7		93.2	
200	84.6		86.4		86.8		86.3		93.2	
250	85.0	89.2	87.2	91.3	87.3	91.4	87.9	91.7	90.7	96.2
315	83.5		85.9		85.7		86.3		89.3	
400	83.4		85.7		85.8		86.2		88.4	
500	82.5	87	86.0	90.7	86.1	90.9	86.1	90.8	87.7	92
630	80.2		86.0		86.4		85.6		84.7	
800	75.5		84.5		85.6		83.8		80.1	
1000	71.9	77.4	83.2	88	84.3	89.2	82.2	87.1	76.6	82.2
1250	66.8		81.3		83.2		80.3		72.7	
1600	63.0		78.8		81.1		77.7		69.5	
2000	62.8	66.5	75.4	80.9	77.6	83.1	74.4	79.8	68.0	71.5
2500	57.4		70.6		72.3		69.4		60.8	
3150	58.0		65.7		66.1		63.1		58.1	
4000	60.1	63.2	62.5	67.9	62.2	68	60.3	65.5	59.0	62.5
5000	56.5		58.1		58.0		55.9		55.4	
6300	55.9		55.9		55.4		54.7		54.4	
8000	55.3	59.5	54.9	59.2	54.1	58.6	54.6	58.6	53.8	58
10000	52.2		51.6		50.7		51.3		50.5	

Table 3 : Sound Power Levels, dB

Test No.	11		12		13		14		15	
f, Hz										
50	71.5		73.4		71.5		72.4		71.9	
63	78.3	83.8	78.2	85.3	78.9	85.3	76.4	84	75.4	83.6
80	82.0		84.1		83.9		82.8		82.6	
100	88.0		89.0		88.3		88.1		86.9	
125	92.6	97.1	93.4	97.7	92.8	98	92.4	97.8	92.4	97.8
160	94.4		94.6		95.8		95.6		95.8	
200	93.2		93.4		95.8		94.3		95.2	
250	91.3	96.7	90.9	96.4	92.9	98.5	92.5	97.9	93.6	99
315	91.1		89.6		91.5		92.1		93.5	
400	89.4		88.3		90.1		91.8		92.6	
500	87.1	92.2	86.9	91.7	89.5	93.9	92.3	96.7	92.3	96.8
630	84.5		84.9		87.2		91.6		91.1	
800	81.6		81.5		85.2		91.6		90.4	
1000	77.4	83.5	78.1	83.7	82.6	87.9	91.3	98.1	89.8	94.6
1250	73.7		75.0		79.8		91.1		89.2	
1600	70.8		71.8		77.0		90.1		87.7	
2000	67.8	73	67.6	73.6	73.7	79.2	86.7	92.1	84.4	89.8
2500	62.7		62.3		69.5		81.9		79.5	
3150	59.1		58.8		64.7		77.1		73.7	
4000	58.9	62.8	58.7	62.8	61.1	66.8	71.9	78.5	68.2	75
5000	55.0		55.3		57.1		65.6		61.7	
6300	54.4		54.4		56.2		59.4		55.2	
8000	54.0	58.1	53.8	58	53.7	58.8	54.0	60.8	51.2	57.2
10000	50.7		50.4		50.3		49.5		47.5	

Table 4 : Sound Power Levels, dB

Test No.	16		17		18		19	
f, Hz								
50	72.4		70.1		71.3		71.8	
63	76.4	83.4	74.3	83.9	76.6	85.4	75.8	80.7
80	82.0		83.2		84.6		78.1	
100	88.3		88.4		89.6		82.6	
125	93.7	98.3	91.8	98	91.8	98.2	89.5	96.8
160	95.7		96.1		96.2		95.7	
200	95.2		97.0		99.5		94.1	
250	93.5	98.6	95.7	100.7	98.6	103.6	95.1	99.6
315	92.4		94.9		98.3		95.3	
400	91.1		94.7		97.2		94.6	
500	92.6	97.2	95.3	99.7	97.3	101.7	93.1	98.1
630	93.3		94.7		96.1		91.8	
800	92.5		94.8		96.3		89.5	
1000	90.4	95.6	94.6	100	95.4	100.1	86.9	92.1
1250	88.6		96.1		93.8		83.3	
1600	86.9		95.8		92.2		80.1	
2000	83.3	88.9	93.3	98.4	88.7	94.3	75.9	82
2500	78.6		90.0		84.2		72.8	
3150	74.0		86.0		78.8		70.2	
4000	68.7	75.3	81.3	87.6	72.5	79.9	65.3	71.8
5000	62.8		76.6		66.8		60.8	
6300	57.6		71.9		62.0		57.8	
8000	53.2	59.3	66.5	73.2	57.6	63.7	54.9	60.2
10000	48.7		60.1		52.6		51.0	

Appendix 1

Test Procedure

The Laboratory Determination of Sound Power Level

The Laboratory determination of sound power emission is characterised by the corrected sound pressure level measured in a reverberation room due to the operating test sample.

The reverberation room is constructed from 215mm brick which is internally plastered with a reinforced concrete floor and roof. The room has a volume of 300 cubic metres and is isolated by the use of resilient mountings and seals from the surrounding structure ensuring good acoustic isolation.

The test sample is located on the floor of the reverberation room.

With the tapping machine operating on the test floor the resulting sound pressure levels in the reverberation room are sampled, filtered into one-third octave band widths, integrated and averaged by means of a Real Time Analyser using a spaced array of microphones. The value obtained at any particular frequency is then corrected into Sound Power Levels using the expression:

$$L_w = L_p + 10 \log V - 10 \log T - 14 \text{ in decibels}$$

where

L_w is the Sound Power Level re one pico watt

L_p is the measured Sound Pressure Level re $2 \times 10^{-5} \text{ N/m}^2$

V is the volume of the room in m^3

T is the measured reverberation time in the room in the corresponding frequency band (secs)

Octave band sound power levels are obtained by the logarithmic summation of the three equivalent one-third octave bands.



UAB „Propoint LT“

Uždaroji akcinė bendrovė (UAB) „Propoint LT“ Latvių g. 15-55, LT-08123 Vilnius. Tel.: 8 633 63638 El. paštas: info@propoint.lt

Duomenys apie įmonę kaupiami ir saugomi valstybės įmonės „Registru centras“ Juridinių asmenų registre JAR-1-E

Įmonės kodas: 121928850 / PVM mokėtojo kodas LT219288515

KLAIPĖDOS VALSTYBINIO MUZIKINIO TEATRO SCENOS TECHNOLOGIJŲ BALETO ŠOKIO SURENKAMŲ GRINDŲ SISTEMOS PIRKIMAS

2 lentelė. SIŪLOMOS ĮRANGOS GAMINTOJŲ DOKUMENTACIJA, SU INFORMACIJA PATVIRTINANČIA SIŪLOMOS ĮRANGOS ATITIKIMĄ TECHNINĖS SPECIFIKACIJOS REIKALAVIMAMS

Eil. Nr.	Dokumento pavadinimas	Kuriai Techninės specifikacijos pozicijai aktualu.	Lapų skaičius
1.	Architect-Guide-LR	1	22
2.	Fire-feu DuoPro-RevPro loose-libre	1	7
3.	Fire-feu Liberty	1	7
4.	Gaffer-tape-Specification-sheet	1	1
5.	Guarantee-Harlequin-Europe	1	1
6.	Harlequin Accessories	1	1
7.	Harlequin Liberty Transport cart	1	1
8.	Harlequin Liberty-Accessories	1	2
9.	Harlequin sprung floors - EN 2021	1	12
10.	Harlequin-Duo-Pro-EN	1	1
11.	Harlequin-Liberty-EN	1	3
12.	Klaipeda Musical Theatre - modified 0606 - 12x12	1	1
13.	Klaipeda Musical Theatre - modified 0606 - 11x13	1	1
14.	Liberty - acoustic report - EN	1	13
15.	Liberty - DIN 18032 certificate	1	8
16.	Sustainability Policy Statement	1	6

Sustainability Policy Statement

Our commitment

Harlequin is committed to sustainable development and our corporate responsibility in this area forms a fundamental part of our business strategy. We believe that sustainability is a team effort across the entire company, driven and supported by our board of Directors.

We continually monitor the environmental impact of our manufacturing processes and operations and ensure that every department works together to plan, measure and improve our social and environmental performance.

This plan will be reviewed annually to demonstrate our ongoing commitment to reduce carbon emissions across all our operations and to improve our overall sustainability.



Harlequin Working Practices:

- Harlequin works closely with partners, customers and suppliers to ensure that we continue to develop sustainable practices, products and services.



(/en/)

HARLEQUIN
FLOORS

- We provide business-wide training, advice and information to all team members to encourage the development of new environmental initiatives within the workplace.
- All departments commit to reduce unnecessary waste by re-use and recycling.
- We will continually review and, where possible, implement more energy efficient processes in our own production and those of our suppliers.



Harlequin Vinyl Flooring:

- All Harlequin vinyl flooring products achieve the highest BRE Green Guide rating of A+
- All raw materials used in the manufacture of Harlequin vinyl flooring are REACH (https://ec.europa.eu/environment/chemicals/reach/reach_en.htm). (Registration, Evaluation, Authorisation and Restriction of Chemicals) compliant and do not contain any SVHC (<https://echa.europa.eu/registry-of-svhc-intentions>). (Substances of Very High Concern) in concentrations greater than 0.1% (w/w)
- All Harlequin vinyl flooring products contain no CMR (Carcinogenic, Mutagenic, Reprotoxic) Category 1 or 2 substances.
- All Harlequin vinyl flooring products are free from formaldehyde and are classified as conforming to Class E1.
- All Harlequin vinyl flooring products have been tested for VOCs, achieving Intertek's Clean Air Gold Certification (<https://www.intertek.com/certification/indoor-air-quality/>), for emissions and complying with both BREEAM (<https://www.breeam.com>). (Building Research Establishment Environmental Assessment Method) and LEED (<https://www.usgbc.org/leed>). (Leadership in Energy & Environmental Design) requirements for good air quality.
- All Harlequin vinyl flooring is 100% recyclable.
- All Harlequin vinyl flooring contains between 23% – 30% post manufacture recycled content.



- Harlequin conforms to the recommendations of Vinyl Plus (<https://www.vinylplus.eu>), the European PVC industry's commitment to sustainable development.
- Harlequin runs a proactive 'Take Back' scheme under which products from post installation and post use are recycled into second life products.



- Since Harlequin Floors introduced their 'committed to recycling' scheme, diverting material away from landfill, the programme has saved 93 tonnes of CO2 emissions.

Harlequin Wood Flooring:

- All timber used by Harlequin is responsibly sourced from sustainable well managed forests that are either FSC (<https://fsc.org/en>) or PEFC (<https://www.pefc.co.uk>), certified.
- Harlequin have demonstrated their commitment to sustainability by gaining FSC 'Chain of Custody' Certification.

Contact Harlequin Floors

[Make an enquiry](#)

([/en/contact](#)).



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DETALŪS METADUOMENYS

Dokumento sudarytojas (-ai)	Klaipėdos valstybinis muzikinis teatras 190755028, K. Donelaičio g. 4, LT-92144, Klaipėda UAB "Propoint LT" 121928850, Vilnius, Latvių g. 15-55
Dokumento pavadinimas (antraštė)	Viešojo pirkimo sutartis (Balento grindys Propoint LT)
Dokumento registracijos data ir numeris	2023-06-30 Nr. F12--116-(4.33 E)
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	Naglis Stancikas, Laikinai einantis pareigas
Sertifikatas išduotas	NAGLIS STANCIKAS LT
Parašo sukūrimo data ir laikas	2023-06-29 09:42:29 (GMT+03:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2023-06-29 09:42:45 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016, AS Sertifitseerimiskeskus EE
Sertifikato galiojimo laikas	2019-03-19 13:02:43 – 2024-03-17 23:59:59
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	Virginijus Remeika, Direktorius, UAB PropointLT
Sertifikatas išduotas	VIRGINIJUS REMEIKA LT
Parašo sukūrimo data ir laikas	2023-06-30 05:07:47 (GMTZ)
Parašo formatas	XAdES-EPES
Laiko žymoje nurodytas laikas	–
Informacija apie sertifikavimo paslaugų teikėją	RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT
Sertifikato galiojimo laikas	2023-06-05 15:50:09 – 2025-06-04 15:50:09
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2022-05-19 16:48:06 iki 2025-05-18 16:48:06
Pagrindinio dokumento priedų skaičius	25
Pagrindinio dokumento priedamų dokumentų skaičius	–
Priedamo dokumento sudarytojas (-ai)	–
Priedamo dokumento pavadinimas (antraštė)	–
Priedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.72.2
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2023-06-30 13:49:48)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2023-06-30 13:49:49 DBSIS